

Explanation of the Tables



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EXPLANATION OF THE TABLES.

COMMON LOGARITHMS.

LOGARITHMS are a series of numbers adapted in a certain way to a series of natural numbers, to facilitate the processes of numerical computation.*

1. The *index*, or characteristic of the logarithm of a number, is *one less* than the integral figures used in expressing that number.*

Thus, if the number contain *five* integral figures, the index is 4; if it contain *four*, the index is three; and so on.

When the number has no integral figures, the index of its logarithm is *negative*, and is *one more* than the number of ciphers immediately after the decimal point; that is, the number of *prefixed* ciphers.

Thus, if there is no cipher after the decimal point, the index is -1 ; if there is one prefixed cipher, the index is -2 ; and so on. The negative sign is placed over the index, thus, $\bar{1}$, $\bar{2}$, &c.

The indices *not* be supplied by the calculator, as they are not given in the tables. The decimal part of a logarithm is always positive, and is the same for all numbers consisting of the same figures, wherever the decimal point is situated. The method of supplying the indices is illustrated thus:

Number.	Logarithm.
8304.....	3.9192873
830.4.....	2.9192873
83.04.....	1.9192873
8.304.....	0.9192873
.8304.....	$\bar{1}$.9192873
.08304.....	$\bar{2}$.9192873
.008304.....	$\bar{3}$.9192873

* See *Algebra* of Chambers's Educational Course, article 483, and *Tables on Logarithms*, articles 57 to 69.

2. PROBLEM I.—To find the logarithm of a number by the tables.

When the number consists of less than six figures.

The first four figures may be looked for in the left column marked No., and the fifth in the top column, and opposite to the first four figures, and under the fifth, will be found the logarithm.

Thus $L\ 83456 = 4.9214576$.

The index, which is not given in the table, is easily found by the rule in article 1. In this case the number of integral figures is five, and hence the index is 4.

When the number consists of less than five figures, conceive ciphers to be annexed to it to make up five figures, and find its logarithm as above.

Thus $L\ 83$, or $L\ 83.000 = 1.9190781$.

The index being 1, as there are only two integral figures in the number 83.

When the number consists of six figures.

Find the logarithm of the number composed of the first five figures as above, then take the tabular difference from the right-hand column of differences marked D, and multiply it by the sixth figure; reject the right-hand figure of the product, and add the other figures, which are called a proportional part, to the logarithm found above, observing that the right-hand figure of the proportional part is to be added to that of the logarithm, and the rest in order.

EXAMPLE.

Find the log. of 834079.

$L\ 834.07$ (in the table) is $= 2.9212025$

Tabular difference = 52;

which multiplied by 9, gives 47

And $L\ 834.079 = 2.9212072$

The index is evidently 2, and the product $52 \times 9 = 468$, gives 47 to be added, for 470 is nearer to 468 than 460; and generally,

3. When a decimal place is rejected, the preceding figure is to be increased by 1 when the rejected figure exceeds 5, but it is not to be altered when the rejected figure is less than 5; and when the rejected figure is 5, the preceding figure is not to be altered when it is an even number, but is to be increased by 1 when it is an odd number.

The reason of the rule for finding the proportional part is this: the log. of 834070 is 2.9212025, neglecting the index, and that of 834080 is 2.9212077, and the difference between the numbers is 10, and between the logarithms is 52, the tabular difference; also the difference between 834070 and 834079 is 9; hence $10 : 9 = 52 : 46.8$; that is, the difference of the numbers is proportional to the difference

of their logarithms, which is nearly the case for several successive logarithms.

When the number consists of seven figures.

Find the logarithm of the number consisting of the first five, then multiply the tabular difference by the number composed of the last two figures, cut off two figures from the right of the product, and add the rest as before.

EXAMPLE.

Find the logarithm of 8340·794.

$$L\ 8340\cdot7 \text{ (in the table) is } = 3\cdot9212025$$

Tabular difference = 52 ; and

$$52 \times 94 = 4888 \text{ and proportional part } = \underline{\quad} 49$$

$$\text{Hence } L\ 8340\cdot794 = 3\cdot9212074$$

Here the last two figures 88 are cut off from the product 4888, and the 8 of 48 is changed to 9 by the above rule.

Since the logarithms of numbers consisting of the same figures differ only in their indices, and the

$$\log. 834\cdot079 \text{ is } = 2\cdot9212072$$

$$\text{Hence } L\ 834079 = 5\cdot9212072 \quad \text{and} \quad L\cdot834079 = 1\cdot9212072$$

$$L\ 83407\cdot9 = 4\cdot0212072 \quad \text{"} \quad L\cdot0834079 = 2\cdot9212072$$

$$L\ 8340\cdot79 = 3\cdot9212072 \quad \text{"} \quad L\cdot00834079 = 3\cdot9212072$$

EXERCISES.

1. The logarithm of 830 is = 2·9190781
2. The logarithm of 8304 is = 3·0192873
3. The logarithm of ·083047 is = 2·9193239
4. The logarithm of 830·465 is = 2·9193213
5. The logarithm of 8372·468 is = 3·9228535

For the last number the tabular difference is 52, and this multiplied by 68, gives 3536 ; and hence 35 is to be added.

4. PROBLEM II.—To find the number corresponding to a given logarithm.

When the logarithm is found exactly in the tables.

The first four figures of the number required will be found in the left column marked No., and opposite to the given logarithm, and the fifth figure at the top of the column in which it is found ; and the index of the logarithm, increased by 1, will be the number of integers in the given number, when it is a whole number ; or the index, diminished by 1, will be the number of prefixed ciphers, when the number is a decimal fraction, and the index consequently negative.

Thus, 2·9224318 is the logarithm of 836·44
and 4·9224140 is the logarithm of ·0008364

Diminishing the negative exponent 4 by 1 in this last logarithm, in an arithmetical sense, makes 3 of a remainder; but increasing 4 by 1, in an algebraical sense, makes 3, and 3 is just the number of ciphers. In this latter sense, therefore, the index in every case is to be increased by 1 to give the number of integers or prefixed ciphers.

5. When the given logarithm is not found in the tables.

Take the next lower logarithm found in the tables; and the number belonging to it, which will consist of 5 figures, will be the first five figures of the required number. Find the difference between this logarithm and the given one, tack a cipher to it, and divide by the tabular difference, and the quotient will be the sixth figure of the required number; annex another cipher, and divide again, and the quotient will be the seventh figure.

The index will shew where the decimal point of the required number is to be placed.

The number cannot be carried with accuracy to more places than the decimal places used in the logarithms, which in these tables are seven.

EXAMPLE.

Find the number corresponding to the logarithm 3·9232670.

Given log.	3·9232670	
Next lower in tables	3·9232647 = the log. of 83804	
Difference	=	23
and tabular difference = 52, and $\frac{23}{52} = \frac{300}{2}$		gives 44

Hence the required number is 8380·444

If the index had been $\bar{4}$, the number would have been ·0008380444.

EXERCISES.

1. The number corresponding to the logarithm 2·9216865 is 835.
2. The number corresponding to the logarithm $\bar{1}$ ·9221647 is ·83592.
3. The number corresponding to the logarithm 3·9231268 is 8377·738.

PROPORTIONAL PARTS BY INSPECTION.

6. The proportional part for any figure is found by inspection in the line of proportional parts at the foot of the page, opposite to the given tabular difference, and under the figure in the head-line of the page. e

7. **PROBLEM III.**—To find the logarithm of a number consisting of six figures.

Find the logarithm for the first five figures by article 2, and then find the proportional part for the sixth figure by article 6, and the sum is the required logarithm.

EXAMPLE.

Find the logarithm of 834·079.

L 834·07 by table	2·9212025
Proportional part opposite to tabular difference 52 and under 9 at top is }	47

2·9212072

Here the proportional part for 9 is 47, as was found before in article 2.

8. **PROBLEM IV.**—To find the logarithm of a number consisting of seven figures.

Find the logarithm of the first five figures, and the proportional part for the sixth figure as in article 7 ; then find the proportional part for the seventh figure exactly in the same way, only it is to be removed one figure to the right, which is equivalent to dividing it by ten ; the sum of the first logarithm and of the two proportional parts will be the required logarithm.

EXAMPLE.

Find the logarithm of 8340·794.

L 8340·7 by the table	=	3·9212025
Pro. part for tab. dif. 52 and under 9	=	47
" " " " " 4	=	21

Hence L 8340·794 = 3·9212074

The proportional part 21 is placed a figure to the right. The sum of the proportional parts is 49, omitting the 1, as in article 3.

The exercises in article 2 will serve for exercises for the preceding articles 7 and 8.

9. **PROBLEM V.**—To find the number corresponding to a given logarithm.

When the logarithm is not found in the table, take out the next lower and the five figures of the number belonging to it (2) ; find the difference between this logarithm and the given one, and opposite to the corresponding tabular difference find the proportional part which is equal to this difference, and above it in the top line is the sixth

figure of the number : but if the difference is not exactly found among the proportional parts, take the next lower part, and the figure over it at the top is the sixth figure of the number ; subtract this part from the given difference, annex to the new difference a cipher, consider it as a new proportional part, and find the corresponding figure as before, and it will be the seventh figure of the number.

EXAMPLE.

Find the number whose logarithm is 3·9212074.

Given logarithm = 3·9212074

Number = 8340·7 to next lower log. = 3·9212025

Number =09 to next lower pro. part = $\begin{array}{r} 49 \\ 47 \end{array}$

Number =004 to nearest pro. part = $\begin{array}{r} 20 \\ 21 \end{array}$

Hence 8340·794 is the required number.

COMPUTATION OF NEGATIVE INDICES.

10. It is usual to make only the index of a logarithm negative, as the calculations can thus be made more conveniently. Calculations with negative exponents are made according to the rules of algebraic addition and subtraction.

11. **PROBLEM VI.**—To add two negative indices.

Their sum, considering them to be positive, is taken and made negative.

Thus $\bar{2}$ added to $\bar{3}$, gives $\bar{5}$.

12. **PROBLEM VII.**—To add a positive and negative index.

Their difference is taken, and it is considered to be positive or negative according as the positive or negative index is the greater ; that is, the difference has the sign of the greater.

Thus 6 and $\bar{2}$ give 4 ; 5 and $\bar{2}$ give 3 ; $\bar{5}$ and 2 give $\bar{3}$; $\bar{2}$ and 1 give $\bar{1}$; and so on.

The following examples will easily be performed by considering these two rules :

EXAMPLES.

1. Add 5·3468541 and $\bar{3}$ ·2685427.

5·3468541

$\bar{3}$ ·2685427

2·6153968

2. Add $6\cdot3874654$ and $\bar{2}\cdot9245636$.

$$6\cdot3874654$$

$$\bar{2}\cdot9245636$$

$$5\cdot3120290$$

In this example the sum in the first decimal place is 13, and the 1 is carried to 6, which gives 7, then 7 and 2 give 5.

3. Add $\bar{2}\cdot5632874$ and $\bar{3}\cdot2465281$.

$$\bar{2}\cdot5632874$$

$$\bar{3}\cdot2465281$$

$$5\cdot8098155$$

13. PROBLEM VIII.—To subtract a negative exponent.

Change its sign to plus, and then add it by the preceding rules for addition.

Thus, to subtract $\bar{3}$ from 2, the result is found by adding 3 to 2, which gives 5. So $\bar{5}$ subtracted from 2, gives 5 and $\bar{2}$ or 3; also 3 subtracted from 5, gives 3 and $\bar{5}$ or 2.

EXAMPLES.

1. From $2\cdot6847658$ subtract $\bar{3}\cdot2468543$

$$2\cdot6847658$$

$$\bar{3}\cdot2468543$$

$$5\cdot4379115$$

2. From $\bar{2}\cdot3468537$ subtract $\bar{5}\cdot7654626$

$$\bar{2}\cdot3468537$$

$$\bar{5}\cdot7654626$$

$$2\cdot5813911$$

Here $\bar{5}$ taken from $\bar{2}$, gives 5 and $\bar{2}$ or 3; but in subtracting the first decimal places, there is one to be carried; in other words, 1 is to be subtracted from the upper number $\bar{2}$, which makes it $\bar{3}$, then 3 and 5 give 2.

3. From $5\cdot6843252$ subtract $\bar{3}\cdot7856310$

$$5\cdot6843252$$

$$\bar{3}\cdot7856310$$

$$\bar{3}\cdot8986942$$

Here $\bar{3}$ taken from 5, gives 3 and $\bar{5}$ or 2, and a 1 of carriage,

which is of course to be subtracted, gives $\bar{2}$ and $\bar{1}$ or $\bar{3}$; or the 1 of carriage, with the $\bar{5}$ makes $\bar{6}$, and 3 taken from $\bar{6}$, gives 3 and $\bar{6}$ or $\bar{3}$.

14. PROBLEM IX.—To multiply a logarithm with a negative index.

Multiply the fractional part by the common rules; then multiply the negative exponent, which will give a negative product, and add the carriage to it by the rule in article 12.

Thus $\bar{2}$, multiplied by 5, gives $\bar{10}$, and if 2 of carriage is to be added, the result is 8.

EXAMPLES.

$$\begin{array}{r} \text{1. Multiply} \quad \bar{3}685164 \text{ by } 2. \\ \quad \quad \quad \bar{2}3685164 \\ \quad \quad \quad \quad \quad 2 \\ \hline \end{array}$$

$$\bar{4}7370928$$

$$\begin{array}{r} \text{2. Multiply} \quad \bar{3}7856473 \text{ by } 6. \\ \quad \quad \quad \bar{3}7856473 \\ \quad \quad \quad \quad \quad 6 \\ \hline \end{array}$$

$$\bar{14}7138838$$

Here $\bar{3} \times 6 = \bar{18}$, and $\bar{18}$, with the carriage 4, gives $\bar{14}$.

15. PROBLEM X.—To divide a logarithm having a negative index.

If the index is divisible by the divisor, write down the quotient with a negative sign, and divide the fractional part by common rules. But if the negative exponent is not divisible by the divisor, add such a negative number to it as will make it divisible, and prefix an equal positive integer to the fractional part of the logarithm; then divide the increased negative exponent and the other part of the logarithm separately, and the former quotient, taken negatively, will be the index to the fractional part of the quotient.

Thus $\bar{6}$, divided by 3, gives $\bar{2}$. But to divide $\bar{10}$ by 3, add $\bar{2}$ to it, and then $\bar{10}$ is equal to $\bar{12}$ and 2; the former, divided by 3, gives $\bar{4}$, and the latter $\frac{2}{3}$. The quotient, therefore, is $\bar{4}$ and $\frac{2}{3}$.

EXAMPLES.

$$\text{1. Divide} \quad \bar{6}3246846 \text{ by } 3.$$

$$\bar{6}3246846 \div 3 = \bar{2}1082282$$

$$\text{2. Divide} \quad \bar{14}3268472 \text{ by } 9.$$

$$\bar{14}3268472 = \bar{18} + \bar{4}3268472$$

$$\text{and the quotient is} \quad = \bar{2}4807608$$

Here 4 must be added to $\overline{11}$, that the sum $\overline{15}$ may be divisible by 9; and as $\overline{4}$ is thus added, therefore 4 must be prefixed to the fractional part, and thus the value of the logarithm is unaltered, for there is added to it 4 and 4, or 0.

16. PROBLEM XI.—To perform multiplication by logarithms.

Add the logarithms of the factors, and the sum will be the logarithm of the product.

EXAMPLES.

$$\begin{array}{ll} 1. \text{ Multiply} & 2.581926 \text{ by } 345.7291. \\ & L\ 2.581926 = 0.4119438 \\ & L\ 345.7291 = 2.5387359 \end{array}$$

$$\text{Product} = 892.647, \text{ its log.} = 2.9506797$$

$$2. \text{ Multiply } .03902, 59.716, \text{ and } .00314728.$$

$$\begin{array}{ll} & L\ .03902 = 2.5912873 \\ & L\ 59.716 = 1.7760907 \\ & L\ .00314728 = \overline{3}.4979353 \end{array}$$

$$\text{Product} = .007833533, \text{ its log.} = \overline{3}.8653133$$

EXERCISES.

$$1. \text{ Multiply } 231.4 \text{ and } 5.062. \quad \text{Ans. } 1171.347.$$

$$2. \text{ Multiply } 35.86, 2.1016, .8372, \text{ and } .00294. \quad \text{Ans. } .1857618.$$

For additional exercises see *Navigation*, page 29.

17. PROBLEM XII.—To perform division by logarithms.

From the logarithm of the dividend subtract that of the divisor, and the remainder will be the logarithm of the quotient.

EXAMPLES.

$$\begin{array}{ll} 1. \text{ Divide} & 371.49 \text{ by } 52.376. \\ & L\ 371.49 = 2.5699471 \\ & L\ 52.376 = 1.7191323 \end{array}$$

$$\text{Quotient} = 7.092752 \quad 0.8508148$$

$$\begin{array}{ll} 2. \text{ Divide} & .07438 \text{ by } 129.476. \\ & L\ .07438 = 2.8714562 \\ & L\ 129.476 = 2.1121693 \end{array}$$

$$\text{Quotient} = .0005744694 \quad \overline{4}.7592669$$

EXERCISES.

1. Divide 241·63 by 4·567. Ans. 52·90782.

2. Divide ·6314 by ·007241. Ans. 87·19792.

For additional exercises see *Navigation*, page 30.

18. PROBLEM XIII.—To perform proportion by logarithms.

Add together the logarithms of the second and third terms, and from their sum subtract the logarithm of the first, and the remainder will be the logarithm of the fourth term.

The *arithmetical complement* of a number is the remainder, after subtracting it from a number consisting of 1, with as many ciphers annexed as the number has of integers. When the index of a logarithm is less than 10, which is generally the case, its arithmetical complement is found by subtracting it from 10.

The arithmetical complement of a logarithm is easily found by subtracting its first significant figure from 10, and all those before it from 9.

Instead of subtracting the logarithm of the first term, its arithmetical complement may be added to the logarithms of the second and third, and the sum, after deducting 10 from the index, will be the logarithm of the fourth term.

EXAMPLE.

Find a fourth proportional to 723·4, ·02519, and 3574·862.

As	723·4	2·8593785	ar. com.	7·1406215
To	·02519	2·4012282		2·4012282
So is	3574·862	3·5532592		3·5532592
		<hr/>		
		1·9544874		1·0951089
		<hr/>		
To	·1244827	1·0951089		

In the first method, the logarithms of the second and third terms are added, and that of the first term is then subtracted from the sum; and in the second method, the arithmetical complement of the logarithm of the first term is added to the logarithms of the second and third, and from 9 the index 10 is subtracted, which gives 1 for a remainder.

19. The *arithmetical complement* of a number is also sometimes understood to be the algebraic remainder after subtracting the number from zero or nothing. Instead of subtracting a number from another, if this arithmetical complement of the former is added to the latter, the sum will be the required difference without deducting 10 or any other number. Thus in the above example,

$$\begin{aligned}
 * \text{ A. C. of } L\ 723\cdot4 &= \bar{9}\cdot1406215 \\
 L\ 02510 &= \bar{2}\cdot4012282 \\
 L\ 3574\cdot862 &= 3\cdot5532592
 \end{aligned}$$

$$\bar{1}\cdot0951089$$

which is the same result as before.

For exercises in this case see *Navigation*, page 30.

20. PROBLEM XIV.—To perform involution by logarithms.

Multiply the logarithm of the given number by the exponent of the power to which it is to be raised, and the product will be the logarithm of the required power.

EXAMPLE.

Find the cube of 30·7146.

$$L\ 30\cdot7146 = 1\cdot4873449$$

3

$$\text{Power} = 28975\cdot75, \text{ its log.} = 4\cdot4620347$$

EXERCISES.

1. Find the fourth power of 9·163. Ans. 7049·38.
2. Find the 365th power of 1·0045. Ans. 5·148888.

For additional exercises see *Navigation*, page 31.

21. PROBLEM XV.—To perform evolution by logarithms.

Divide the logarithm of the given number by the exponent of the root which is to be extracted, and the quotient will be the logarithm of the required root.

EXAMPLES.

1. Find the cube root of 12345.

$$L\ 12345 = 4\cdot0914911$$

$$\text{Its quotient by } 3 = 1\cdot3638304 = L\ 23\cdot11162$$

$$\text{Hence } \sqrt[3]{12345} = 23\cdot11162$$

2. Find the fourth root of ·0076542.

$$L\ \cdot0076542 = \bar{3}\cdot8838998$$

$$\text{Its quotient by } 4 \text{ (by } 15) = \bar{1}\cdot4709749 = L\ \cdot295784$$

$$\text{Hence } \sqrt[4]{\cdot0076542} = \cdot295784$$

For additional exercises see *Navigation*, page 31

* A. C. is a contraction for arithmetical complement.

22. PROBLEM XVI.—To find the *amount* and *present value* of a sum of money at compound interest by logarithms.

Let p = the principal,

a = " amount,

t = " time or number of payments of interest,

r = " interest of £1 for one period,

$(1 + r) = R$ = " amount of £1 for one period.

Then (*Algebra*, 666), $a = p R^t$ (1)

which, by taking the logarithms of both sides, becomes

$$\text{Log. } a = \text{log. } p + t \text{ log. } R, \quad (2)$$

Transposing $\text{Log. } p = \text{log. } a - t \text{ log. } R, \quad (3)$

$$\text{Log. } R = \frac{\text{log. } a - \text{log. } p}{t}, \quad (4)$$

$$t = \frac{\text{log. } a - \text{log. } p}{\text{log. } R}. \quad (5)$$

Also the interest $= a - p = p (R^t - 1)$ (6)

Note.—If in the above formulae p = the present value of a sum a due t periods hence, they are equally true for the present value; t , r , and R being the same as above.

When t is large, the logarithm of R , in order to obtain correct results, should be taken with more than seven places of decimals; for which reason the most common values of R , with their logarithms carried to ten decimals, are inserted in the following table:

LOGARITHMS OF R.

R.	Logarithm.	R.	Logarithm.
1.0025 .....	.00108,43813	1.0325 .....	.01389,00603
1.0050 .....	.00216,60618	1.0350 .....	.01494,03498
1.0075 .....	.00324,50548	1.0375 .....	.01598,81054
1.0100 .....	.00432,13738	1.0400 .....	.01703,33303
1.0125 .....	.00539,50319	1.0425 .....	.01807,60636
1.0150 .....	.00646,65422	1.0450 .....	.01911,62904
1.0175 .....	.00753,44179	1.0475 .....	.02015,40316
1.0200 .....	.00860,01718	1.0500 .....	.02118,92991
1.0225 .....	.00966,33167	1.0525 .....	.02222,21045
1.0250 .....	.01072,38654	1.0550 .....	.02325,24596
1.0275 .....	.01178,18305	1.0575 .....	.02428,03760
1.0300 .....	.01283,72247	1.0600 .....	.02530,58653

EXAMPLE I.

Find the amount and compound interest of £365, 10s., for 19 years at $4\frac{1}{4}$ per cent.

Since the rate per cent. is 4.25, the rate for £1 = $r = .0425$, and $R = 1.0425$, $t = 19$, and $p = 365.5$, then by (2),

$$\begin{aligned}
 t \log. R &= 19 \times \cdot 0180760636 = 0.343445034 \\
 + \log. p &= \log 3655 = 2.5628874 \\
 \hline
 \therefore \log. R &= \log 805.9954 = 2.9063326 \\
 &\quad 297
 \end{aligned}$$

$$2908 \div 54 = 54.$$

Hence the amount = £805, 19s. 11d. +
 Also the interest = $a - p$ by (6) = £805, 19s. 11d. - £365, 10s.
 = £440, 9s. 11d.

EXAMPLE II.

Find the present value of £584, 15s. 6d due 12 years hence, compound interest at $3\frac{1}{4}$ per cent.

Since the rate per cent. is $3\frac{1}{4}$, the rate for £1 = $r = \cdot 035$, and $R = 1.035$, $t = 12$, and $a = £584.775$, then by (3),

$$\begin{aligned}
 \log. a &= \log 584.775 = 2.7669888 \\
 - t \log R &= - 12 \times \cdot 0149403498 = 0.1792841976
 \end{aligned}$$

$$\therefore \log p = \log 336.9943 \quad 2.5277046024$$

$$6997$$

$$\text{Hence } p = £336, 19s. 10\frac{1}{2}d +$$

$$43$$

EXAMPLE III.

At what rate per cent. will £365, 10s. amount to £805, 19s. 11d. in 19 years?

Here $a = 805.9954$, $p = 3655$, and $t = 19$; hence by (4),

$$\begin{aligned}
 \log. R &= \frac{\log a - \log p}{t} \\
 &= \frac{2.9063324 - 2.5628874}{19} \\
 &= \frac{0.3434450}{19} = \cdot 0180761 \text{ nearly}
 \end{aligned}$$

$$= \log. 1.0425 \therefore R = 1.0425$$

Hence $r = .0425$, and the rate per cent. is therefore
 $= 4.25 = 4\frac{1}{4}$, the rate sought.

EXAMPLE IV.

How long will £250 amount to £346, 11s. 9½d. at 5 per cent.

Since $a = 846.5885$, $p = 250$, $R = 1.05$, by (5),

$$t = \frac{\log a - \log p}{\log R} = \frac{2.9276723 - 2.3979400}{.0211893} = 25 \text{ years, the time sought.}$$

EXAMPLE V.

Find the present value of £3245 due 30 years hence at $4\frac{1}{2}$ per cent, compound interest

Here $a = 3245$, $R = 1.045$, and $t = 30$; hence by the Note and (3),

$$\begin{aligned} \log p &= \log a - t \log R, \\ \text{or } \log p &= \log 3245 - 30 \times \log 1.045 \\ &= 3.5112147 - 5734887120 \\ &= 2.937725989 = \log 866.415 \\ \therefore \text{the present value} &= £866, \text{ or } 3\frac{1}{2}d. \text{ nearly.} \end{aligned}$$

EXAMPLE VI.

The present value of £596, due 12 years hence, compound interest, is £383, 3s. 4½d, what is the rate per cent per annum?

Here $a = 596$, $p = 383.168$, $t = 12$; hence by the Note and (4),

$$\begin{aligned} \log R &= \frac{\log a - \log p}{t} \\ &= \frac{2.7752463 - 2.5833893}{12} \\ &= \frac{.1918570}{12} = .0159881 \\ &= \log 1.0375 = \log R \\ \therefore R &= 1.0375, \text{ and the rate per cent is } 3\frac{3}{4}. \end{aligned}$$

23. PROBLEM XVII.—To find the *amount* and *present value* of an *annuity*, for a given time, at a given rate per cent. compound interest.

Let p = the annual or periodic payment;

A = the amount of the annuity improved at compound interest to the end of the time;

r = the present value of the annuity;

R = the amount of £1 for one period;

and t = the number of years, or periods of payment.

Then $A = p \left(\frac{R^t - 1}{R - 1} \right)$ (Alg. art. 671),

and $r = \frac{p(R^t - 1)}{R(R - 1)} = \frac{1}{R} A$ (Alg. art. 672);

$\therefore \text{also } A = p R A$

Hence from (7),

$$\text{Log. } A = \text{log. } p + \text{log. } (R^t - 1) - \text{log. } r; \quad (10)$$

from (8),

$$\text{Log. } v = \text{log. } p + \text{log. } (R^t - 1) - \text{log. } r - t \text{ log. } R, \quad (11)$$

and from (9),

$$\text{Log. } A = \text{log. } v + t \text{ log. } R. \quad (12)$$

Transposing (12),

$$\text{Log. } R = \frac{\text{log. } A - \text{log. } v}{t}.$$

LOGARITHMIC SINES, TANGENTS, AND SECANTS.

The logarithmic sines, tangents, &c are the logarithms of the numbers that express the lengths of these lines for any given arc, supposing the radius of the circle to be 10,000,000,000.

24. PROBLEM XVIII —To find the logarithmic sine of an arc.

1. When the arc contains degrees and minutes only .

When the number of degrees is under 45, find them at the top of the table, and in the column marked sine, and opposite to the number of minutes in the left-hand column, is the required logarithm.

When the number of degrees exceeds 45, and is less than 90, they will be found at the foot of the page, and in the column marked sine at the foot, and opposite to the number of minutes in the right-hand column, will be found the required logarithm.

The same rule applies to tangents, cotangents, and all the other trigonometrical quantities.

EXAMPLES.

The log. sine of	36° 24'	is	9 7783614
" " secant	36° 50'	"	10 0967023
" " tangent	53° 36'	"	10 1323772
" " cotangent	53° 40'	"	9 8665644

2. When the arc contains degrees, minutes, and seconds.

Find the logarithm for the number of degrees and minutes as before, and multiply the tabular difference in the difference column next this logarithm by the number of seconds; divide the product by 60, and add the quotient as a proportional part to the preceding logarithm.

If the given quantity is a cosine, cotangent, or cosecant, the proportional part for the seconds must be subtracted from the logarithm for the degrees and minutes.

EXAMPLES.

1. Find the logarithmic tangent of
- $36^{\circ} 40' 50''$
- .

$$\begin{array}{rcl} \text{Log. tan. } 36^{\circ} 40' & = & 9.8718486 \\ \text{Proportional part} = 2637 \times \frac{10}{60} & -- & 2197 \end{array}$$

$$\text{Log. tan. } 36^{\circ} 40' 50'' \quad - \quad 9.8720683$$

2. To find the logarithmic cosecant of
- $53^{\circ} 20' 24''$
- .

$$\begin{array}{rcl} \text{Log. cosec. } 53^{\circ} 20' & - & 10.0957589 \\ \text{Prop. part} = 940 \times \frac{4}{60} & -- & 376 \end{array}$$

$$\text{Log. cos } 53^{\circ} 20' 24'' \quad - \quad 10.0957213$$

The rule depends on this principle: The tabular difference for any logarithm is the difference between it and the next higher, and therefore is the difference corresponding to $60''$; hence if D and d denote the tabular difference and the proportional part to be added for the number of seconds n , then

$$60 : n :: D : d, \text{ and } d = \frac{nD}{60}.$$

This supposes the differences to be constant, which is nearly the case for several consecutive logarithms.

EXERCISES.

1. Find the logarithmic sine of $36^{\circ} 24' 36''$. Ans. 9.7734642.
2. Find the logarithmic cotangent of $53^{\circ} 32' 42''$. Ans. 9.8681953.

25. PROBLEM XIX. — To find the number of degrees, minutes, and seconds corresponding to any logarithmic sine, tangent, or secant.

1. When the logarithm is found in the tables.

The number of degrees will be found at the top or foot of the page, according as the name of the logarithm is at the top or foot of the column, and the minutes are found in the proper column, as in 24.

EXAMPLES.

1. The log. tan. 9.8673583 corresponds to $36^{\circ} 23'$.
2. The log. cos. 9.7776128 corresponds to $53^{\circ} 11'$.

2. When the given logarithm is not found in the table exactly.

Find the next lower logarithm in the proper column, and take the degrees and minutes corresponding to it when it is a sine, tangent, or secant; find the difference between this logarithm and the given one; multiply this difference by 60, and divide by the tabular difference, and the quotient will be the number of seconds required.

When the given logarithm is that of a cosine, cotangent, or cosecant,

it is to be taken from the next higher logarithm in the table, and the seconds found from the remainder as above.

EXAMPLES.

1. Find the degrees, minutes, and seconds corresponding to the logarithmic sine 9.9047423.

$$\begin{array}{rcl} \text{Next lower} & 9.9047106 & = \log. \text{ sine } 53^\circ 25' \\ \text{Given log.} & 9.9047423 & \end{array}$$

$$\text{Difference} = \quad \quad \quad 317, \text{ and tab. dif.} = 937.$$

$$\text{Hence} \quad \quad \quad n = \frac{317 \times 60}{937} = 20''.3$$

$$\text{and} \quad \quad \quad 9.9047423 = \log. \text{ sine } 53^\circ 25' 20''.3.$$

2. Find the number of degrees, minutes, and seconds in the logarithmic cosecant 10.2280452.

$$\begin{array}{rcl} \text{Next higher} & 10.2281850 & = \log. \text{ cosec. } 36^\circ 15' \\ \text{Given log.} & 10.2280452 & \end{array}$$

$$\text{Difference} = \quad \quad \quad 1398, \text{ and tab. dif.} = 1722$$

$$\text{Hence} \quad \quad \quad n = \frac{1398 \times 60}{1722} = 48''.7$$

$$\text{and} \quad \quad \quad 10.2280452 = \log. \text{ cosec. } 36^\circ 15' 48''.7.$$

The rule depends on the proportion in article 24, or

$$D : d = 60 : n, \text{ and } n = \frac{60d}{D}$$

EXERCISES.

1. Find the degrees, &c. corresponding to the logarithmic tangent 9.8644658. Ans. $36^\circ 12' 4''$.

2. Find the degrees, &c. corresponding to the logarithmic cotangent 9.8734523. Ans. $53^\circ 13' 55''$.

FOR SMALL ARCS.

26. The differences for the logarithmic sines and tangents of small arcs, not exceeding 2° for instance, are very variable, and therefore the logarithmic sines and tangents for such a small arc containing seconds cannot be accurately found, since the proportional part is computed on the supposition that the differences are constant for a difference of $60''$ in the arc. Hence if the logarithmic sine of an arc nearly 90° were to be found by using that of a small arc obtained in the usual way, the error in this logarithm would cause an equal error in the preceding, and consequently an error of several seconds on the former arc, because the differences corresponding to $60''$ for arcs nearly 90° are comparatively small. For the same reason, when the logarithmic sine or

tangent of a small arc is given, the arc cannot be accurately found in the usual way. It is seldom such small angles enter into calculations, and when they do so, they or their logarithmic sines or tangents may be calculated by the subjoined rules.

27. PROBLEM XX.—To find the logarithmic sine of a small arc.

To the logarithm of the arc reduced to seconds add 4·6855749, and from the sum subtract $\frac{1}{2}$ of its logarithmic secant, the index of the latter logarithm being previously diminished by 10; the remainder is the required logarithmic sine.

EXAMPLE.

Find the logarithmic sine of $1^{\circ} 44' 36''\cdot 8$.

$$\begin{aligned} a = 1^{\circ} 44' 36''\cdot 8 &= 6276''\cdot 8 \text{ and its log.} = 3\cdot 7977383 \\ \text{Constant number} &= 4\cdot 6855749 \end{aligned}$$

$$\begin{array}{r} 8\cdot 4833182 \\ -\frac{1}{2} (\text{Log. sec. } a - 10) = \frac{1}{2} \times \cdot 0002011 = 0\cdot 0000670 \\ \hline \end{array}$$

$$\text{Hence log. sine of } 1^{\circ} 44' 36''\cdot 8 = 8\cdot 4832462$$

28. PROBLEM XXI.—To find the logarithmic tangent of a small arc.

To the logarithm of the arc reduced to seconds add 4·6855749, and two thirds of the logarithmic secant, the index of the latter logarithmic being previously diminished by 10; the sum is the required logarithmic tangent.

EXAMPLE.

Find the logarithmic tangent of $1^{\circ} 44' 36''\cdot 8$.

$$\begin{aligned} a = 1^{\circ} 44' 36''\cdot 8 &= 6276''\cdot 8 \text{ and its log.} = 3\cdot 7977383 \\ \text{Constant number} &= 4\cdot 6855749 \end{aligned}$$

$$\begin{array}{r} 8\cdot 4833182 \\ +\frac{2}{3} (\text{Log. sec. } a - 10) = \frac{2}{3} \times \cdot 0002011 = 0\cdot 0001341 \\ \hline \end{array}$$

$$\text{Hence log. tangent of } 1^{\circ} 44' 36''\cdot 8 = 8\cdot 4834473$$

29. PROBLEM XXII.—To find a small arc of which the logarithmic sine is given.

To the given logarithmic sine add 5·3144251, and $\frac{1}{2}$ of the corresponding logarithmic secant, the index of the latter logarithm being previously diminished by 10, and the sum will be the logarithm of the number of seconds in the arc.

EXAMPLE.

Find the arc corresponding to the logarithmic sine 8·4832462:

The arc is found in the ordinary way to be $1^{\circ} 44' 36''$, and the logarithmic secant of this arc is 10.0002011; hence

$$\text{Given log. sino} = 8.4832462$$

$$\text{Constant number} = 5.3144251$$

$$\frac{1}{2} (\text{Log. sec.} - 10) = 0.0000670$$

$$L 6276''.8 = 3.7977383$$

$$\text{Hence } a : : 6276''.8 = 1^{\circ} 44' 36''.8.$$

30. PROBLEM XXIII.—To find a small arc, of which the logarithmic tangent is given.

To the given logarithmic tangent add 5.3144251, and from this sum subtract two-thirds of the corresponding logarithmic secant, previously diminishing its index by 10; then the remainder is the logarithm of the number of seconds in the arc.

EXAMPLE.

The logarithmic tangent of a small arc is 8.4834473; required the arc.

It is found in the usual way that the arc is nearly $1^{\circ} 44' 36''$, and its log. secant = 10.0002011.

$$\text{Given log. tangent} = 8.4834473$$

$$\text{Constant number} = 5.3144251$$

$$3.7978724$$

$$- \frac{2}{3} (\text{Log. sec.} - 10) = 0.0001341$$

$$L 6276''.8 = 3.7977383$$

$$\text{Hence } a = 6276''.8 = 1^{\circ} 44' 36''.8.$$

From the smallness of the differences of the logarithmic secants of small arcs, an error of a few seconds in the arc would cause an error of less than 1 in the sixth decimal place, and generally the error on the required arc from this source would be less than $\frac{1}{15}$ of $1''$.*

NATURAL SINES AND COSINES.

31. The natural sines and cosines are the numerical values of the lengths of the sines and cosines of arcs of a circle whose radius is = 1.

The natural sines and cosines of arcs, also the arcs for any given natural sines or cosines, are found from the table by the same method as that used for logarithmic sines and cosines.

The natural sines and cosines of arcs are easily found from the logarithmic sines and cosines, by merely subtracting 10 from the indices of the latter, and then the number corresponding to this

* A proof of the rules, from which the above are easily deduced, is given in Woodhouse's *Trigonometry*, p. 255.

logarithm is the natural sine or cosine required. In the same manner the natural tangents, secants, &c. can be found.

Let s = the natural sine of an arc,
 and S = the sine of the same arc, whose logarithm is the
 logarithmic sine :
 then $S = 10,000,000,000 s$
 and $LS = 10 + Ls$
 or $Ls = LS - 10$.

EXAMPLE.

Given the logarithmic sine of $36^{\circ} 44'$, namely, 9.7767676, to find a natural sine.

L sine $36^{\circ} 44'$	=	9.7767676
Subtract		10
		<hr/>
L nat. sine	=	1.7767676
Hence natural sine	=	.5980915

ANGLES CONTAINED BY THE MERIDIAN WITH EVERY POINT AND QUARTER POINT OF THE COMPASS.

32. In this table the value of the points and quarter points contained by any rhumb line and the meridian is given in degrees, &c.

Thus the number of points contained by the rhumb line of NNE. or NNW. with the meridian is 2 points = $22^{\circ} 30'$.

So the points contained between ENE. $\frac{1}{4}$ E. and N.; or between ESE. $\frac{1}{4}$ E. and S. is = $6\frac{1}{4}$ points = $70^{\circ} 18' 45''$.

LOGARITHMIC SINES, TANGENTS, &c. TO EVERY POINT AND QUARTER POINT OF THE COMPASS.

33. When angles are given in points instead of degrees, it is convenient to know their logarithmic sines, tangents, &c. without converting them into degrees; and these logarithms are given in this table.

Thus the log. tan. of $3\frac{1}{4}$ points = 9.914173.

TERNARY PROPORTIONAL LOGARITHMS.

34. For distinction, the proportional logarithms for 3 hours may be called *ternary*, as those for 24 hours are sometimes called *diurnal*.

* For an account of the principle on which proportional logarithms are founded, see *Practical Mathematics* of Chambers's Educational Course, article 433.

Ternary proportional logarithms are used for finding proportional parts when the change for three hours is given.

EXAMPLE.

Find a fourth proportional to 3h, 1h 40m 25s, and 1° 30'.

Let 1h 40m 25s = t , 1° 30' = v' , and the fourth proportional = v ; then

$$\begin{aligned} 3h : t &= v' : v, \\ \text{or P. L. } 3h - \text{P. L. } t &= \text{P. L. } v' - \text{P. L. } v; \\ \text{and since P. L. } 3h &= 0, \text{ therefore} \\ \text{P. L. } v &= \text{P. L. } t + \text{P. L. } v'. \\ \text{P. L. } (t = 1h\ 40m\ 25s) &= \cdot 25347 \\ \text{P. L. } (v' = 1^\circ\ 30') &= \cdot 30103 \\ \text{P. L. } (v = 50'\ 12''\ 5) &= \cdot 55450 \end{aligned}$$

DIURNAL PROPORTIONAL LOGARITHMS.

35. Those logarithms are used in the same way as the preceding, when the change for 24 hours is given.

EXAMPLE.

Find a fourth proportional to 24h, 21h 37m 51s, and 21' 28''.

$$\begin{aligned} \text{Here P. L. } 24h &= 0 \\ \text{P. L. } 21h\ 37m\ 51s &= 4514 \\ \text{P. L. } 0^\circ\ 21'\ 28'' &= 4845 \\ \text{P. L. } 0^\circ\ 19'\ 20''\ 8 &= \underline{9359} \end{aligned}$$

The calculation may also be performed by using the ternary proportional logarithms for the third and fourth terms; thus, denoting the latter logarithms by P'. L. :

$$\begin{aligned} \text{P. L. } 24h &= 0000 \\ \text{P. L. } 21h\ 37m\ 51s &= 4514 \\ \text{P'. L. } 0^\circ\ 21'\ 28'' &= 92351 \\ \text{P'. L. } 0^\circ\ 19'\ 20''\ 8 &= \underline{96865} \end{aligned}$$

A fourth proportional can also be computed by means of common logarithms; but when the quantities are sufficiently small, it is more concisely found by proportional logarithms, both because these logarithms require to be carried to fewer decimal places, and because, if 24 or 3 hours or degrees is a term, its logarithm is 0.

TO COMPUTE THE EQUATION OF EQUAL ALTITUDES.

36. In taking equal altitudes of the sun, one in the forenoon and the other in the afternoon, since the sun's declination generally changes in the interval, the hour angles corresponding to the two altitudes are not exactly equal. Hence half the interval added to the time of the first observation requires a correction, in order to give the time shewn by chronometer when the sun is on the meridian. This correction is called the 'equation of equal altitudes.' It is given in this table, and is applied, as directed, in the *Treatise on Navigation*, art. 362.

AMPLITUDES.

37. By means of this table the true amplitude is taken out by inspection, whereby the method of finding the variation of the compass, by comparing the magnetic with the true amplitude, is very much facilitated. The table is to be entered with the *declination* at the top, and the *latitude* in the left-side column, and under the declination and opposite to the latitude will be found the amplitude sought. When there are minutes in the declination or latitude, or in both, take proportional parts of the change for one degree, and apply the result to the quantities given in the table; or, if greater accuracy be required, calculate by art. 326, *Navigation*.

SEMIDIURNAL AND SEMINOCTURNAL ARCS.

38. This table shews half the time that a celestial object continues *above* the horizon, when the declination and latitude are of the same name, or *below* it when they are of contrary names; hence, from it the apparent time of its rising and setting may be obtained.

The table is to be entered with the latitude in the left-hand column and the declination at the top; in the angle of meeting will be found the arc required, which, if the object be the sun, will be the apparent time of his setting when the latitude and declination are of the same name, and of his rising when they are of contrary names; this subtracted from 12 hours will give the apparent time of the sun's rising in the former case, and of his setting in the latter; double the time of his rising will be the length of the night, and double the time of his setting the length of the day.

The semidiurnal arc expresses the time that a celestial object takes in ascending from the eastern horizon to the meridian; or of its descending from the meridian to the western horizon.

EXAMPLE.

Suppose in latitude $51^{\circ} 30' N.$, when the sun's declination is $20^{\circ} N.$

it be required to find the apparent time of the sun's rising and setting, with the length of the day and night.

Under dec. 20°, and taking half the sum of that	h. m.
corresponding to 51° and 52°, we get for the	7 49
apparent time of sun setting	12 0
Which being taken from	
Gives the apparent time of the sun's rising	4 11
Then 7h 49m \times 2, gives for the length of the day	15 38
And 4h 11m \times 2, gives for the length of the night	8 22

TO FIND THE APPARENT TIME OF A STAR'S RISING AND SETTING.

39. Subtract the sun's right ascension from the star's right ascension, increased, if necessary, by 24 hours; the remainder will be the approximate time of the star's passing the meridian.

Then, with the latitude of the place and the star's declination, enter the table and find the semidiurnal arc corresponding thereto, which being subtracted from the time of the meridian passage, will give the time of the star's rising, and added to the same will give the time of its setting.

To obtain the mean time of the sun or a star's rising or setting, the equation of time, taken from the *Nautical Almanac*, must be applied to the apparent time found as above.

The mean time of the rising and setting of the planets may be computed as above, by taking out their declination and meridional passage from the *Nautical Almanac* for the given year.

TO FIND THE TIME OF THE RISING AND SETTING OF THE MOON.

40. Take the mean time of the moon's meridional passage at Greenwich from page iv. of the *Nautical Almanac*, and to it apply the correction from table, page 310, to obtain the time of her meridional passage at the given place.

Then, with the moon's declination at the time of her passing the meridian (N. A. page v. to xii. of each month) and the latitude of the place, find the semidiurnal arc as before, and diminishing it by $\frac{1}{10}$ th of itself, subtract the remainder from the time of the meridional passage, and the remainder will be the time of her rising nearly; again, increase the semidiurnal arc by $\frac{1}{10}$ th of itself, and add the result to the time of the meridional passage, the sum will be the time of her setting nearly.

41. If still greater accuracy be required, take from the *Nautical Almanac* the moon's declination corresponding to the approximate times of rising and setting as found above, reduced to Greenwich time; then find the semidiurnal arcs corresponding to each declination and the latitude of the place, correct each of these arcs by table, page

310, for the arc reduced to longitude and the daily variation of the meridional passage, by subtraction that corresponding to the rising, and the other by addition; then apply each of the results to the time of the moon's meridional passage as directed above, and the times of rising and setting will be found very near the truth.

MERIDIONAL PARTS.

42. The table of meridional parts is used in nautical computations in Mercator's sailing, and its construction and uses are described in the *Treatise on Navigation*, article '22.

EXAMPLE I.

To find the meridional difference of latitude for two given latitudes, namely, $57^{\circ} 9' \text{ N.}$ and $35^{\circ} 1' \text{ N.}$

M. P. for $57^{\circ} 9'$	4199.2 N.
M. P. for $35^{\circ} 1'$	2245.5 N.
Meridional diff. lat.	<hr/> 1953.7

When the latitudes are of different names, the meridional parts for the two given latitudes are to be added, and the sum will be the required meridional difference of latitude.

EXAMPLE II.

A ship has sailed northerly till her meridional difference of latitude is 1052, and the latitude of the port sailed from was $38^{\circ} 17' \text{ N.}$; required the latitude in.

M. P. for $38^{\circ} 17'$	2489.9 N.
Meridional diff. lat.	1052.0 N.
M. P. for $50^{\circ} 43'$	= 3541.9 N.

The latitude in is therefore $50^{\circ} 43'$.

When the given latitude of the place sailed from and the meridional difference of latitude have different names, the difference between the meridional parts of the latitude sailed from and the meridional difference of latitude must be taken, and the required latitude corresponding to this difference will be of the same name with the latitude sailed from, when the meridional parts for the latter exceed the meridional difference of latitude, but of a different when they are less.

EXAMPLE III.

The latitude left is $15^{\circ} 9' \text{ N.}$, and the meridional difference of latitude is 695.6 S.; required the latitude in.

M. P. for $15^{\circ} 9'$	=	919.8 N.
Meridional diff. of lat.	=	695.6 S.
M. P. for $3^{\circ} 44'$	=	224.2 N.

Hence the latitude in is $3^{\circ} 44'$ N.

EXAMPLE IV.

The latitude left is $11^{\circ} 36'$ N., the meridional difference of latitude is 1238 S.; required the latitude in.

M. P. for $11^{\circ} 36'$	=	700.8 N.
Meridional diff. of lat.	=	1238.0 S.
M. P. for $8^{\circ} 55'$	=	537.2 S.

Hence the latitude in is $8^{\circ} 55'$ S.

MEAN REFRACTION.

43. In this table the mean refraction is given for the pressure 29.6 inches, and temperature 50° . The principle on which it is computed is explained in Prob. VIII., art. 852, of the *Practical Mathematics*.

The refraction for an altitude of $32^{\circ} 10'$ is found opposite to it in the next column, and is $1' 30''$.

Apparent altitude	=	$32^{\circ} 10' 0''$
Mean refraction	=	0 1 30
True altitude	=	32 8 30

CORRECTION OF MEAN REFRACTION.

44. When the pressure and temperature differ from 29.6 and 50° , the correction can be computed by the formula in article 853 of the *Practical Mathematics*.

In the preceding example, in which the apparent altitude is $32^{\circ} 10'$, let the temperature and pressure be 69° and 30.35, instead of 50° and 29.6; then the correction in the table for

Altitude $32^{\circ} 10'$ and temperature 69° is	=	$- 0^{\circ} 0' 4''$
Altitude $32^{\circ} 10'$ and pressure 30.35 is	=	+ 0 0 2

Correction for both is	=	- 0 0 2
Mean refraction	=	0 1 30

True refraction	=	0 1 28
Apparent altitude	=	32 10 0

True altitude	=	32 8 32
---------------	---	---------

APPARENT DEPRESSION OF THE HORIZON.

45. The apparent depression of the horizon for any height of the eye, not exceeding 110 feet, is given in this table. The principle on which it is constructed is explained in article 855 of the *Practical Mathematics*.

The depression, for example, of the horizon when the height of the eye is 30 feet, is 5' 18", and this is to be *subtracted* from the observed altitude.

If the observed altitude is $40^{\circ} 18' 9''$, and the height of the eye 12 feet, then opposite to 12 is the dip $3' 21''$, hence—

Observed altitude	=	$40^{\circ} 18' 9''$
Dip for 12 feet	=	— $3' 21''$
Apparent altitude		$40^{\circ} 14' 48''$

DEPRESSION OF THE SEA AT DIFFERENT DISTANCES FROM THE OBSERVER.

46. When the altitude of an object is to be taken, and the horizon is not bounded by the sea in consequence of intervening land, the altitude is taken from the line bounding the sea and land; and as this line is lower than the horizon, the correction for its depression will be greater than that for the depression of the sea horizon, and the more so the nearer this line is to the eye of the observer. The quantity of this depression is given in the table.

The depression, for example, when the height of the eye is 30 feet, and the bounding-line $2\frac{1}{2}$ miles distant, is 8'.

Let the observed altitude	=	$32^{\circ} 14'$
Then dip for 30 feet and $2\frac{1}{2}$ miles of distance	=	— $0' 8''$
Hence apparent altitude		32°

CONTRACTION OF THE SEMI-DIAMETERS OF THE SUN AND MOON.

47. In the uppermost line of this table is the altitude of the sun or moon, and in the left column is the inclination of that semi-diameter to the horizon, whose contraction is required. (See *Practical Mathematics*, article 846.)

Thus, for an altitude of 10° , the contraction of the vertical diameter, whose inclination to the horizon is 90° , is 8"; for an altitude of 14° , and an inclination of 45° , the contraction is 2".

Also, when the horizontal semi-diameter of the moon is $15' 30''$, and its altitude 12° , its semi-diameter, which is inclined 60° to the horizon, is

$$= 15' 30'' - 4'' = 15' 26''.$$

REDUCTION OF MOON'S EQUATORIAL PARALLAX.

48. In the top line of this table is contained the horizontal equatorial parallax registered in the *Nautical Almanac*, and the correction to be applied to it, in order to reduce it to the horizontal parallax for any latitude, is given in the column under it, and opposite to the latitude, which is contained in the left column. The correction is of course subtractive. (*Practical Mathematics*, article 851.)

Thus, for example, the reduction for a registered parallax of $54' 20''$, and the latitude of 36° , is $5''$; hence the horizontal parallax for the given latitude is

$$= 54' 20'' - 5'' = 54' 15''.$$

CORRECTION OF MOON'S MERIDIAN PASSAGE.

49. In the top line of this table is contained the daily retardation corresponding to the registered meridian passage, and in the left column the longitude; under the former and opposite to the latter is the correction to be applied to the time of the registered passage at Greenwich on the given day to obtain the meridian passage at the given place. It is to be applied by addition for west, and by subtraction for east longitude. (See an example and explanation in the *Practical Mathematics*, articles 869 and 870.)

AUGMENTATION OF MOON'S SEMI-DIAMETER.

50. In this table the moon's horizontal semi-diameter is given in the top line, and its apparent altitude in the left column; under the former and opposite to the latter is the augmentation, or increase in the moon's apparent semi-diameter, on account of her being nearer to the observer than when in the horizon.

Thus, for the horizontal semi-diameter $15' 0''$, and altitude 21° , the augmentation is $6''$; hence the augmented semi-diameter

$$= 15' 30'' + 6'' = 15' 36''.$$

SUN'S PARALLAX IN ALTITUDE.

51. This table contains the altitude of the sun in one line, and its parallax in the adjacent line, which is always additive to the altitude.

FOR REDUCING COMMON TO NATURAL LOGARITHMS, OR
THE CONVERSE.

52. The method of using the table will be shown in these two examples.

EXPLANATION OF THE TABLES.

1. Find the natural logarithm of the common logarithm 0.9542425.

Com. Log.			Nat. Log.
09	...	...	2.0723266
54	...	...	1243396
24	...	...	5526
25	...	...	58

0.9542425 2.1972246

2. Find the common logarithm of the natural logarithm 2.1972246 .

Given logarithm		2.1972246
Common log. '95		nat. log. = 2.1874558
		<hr/>
		97688
42	...	96709
		<hr/>
		979
42	...	967
		<hr/>
		12
	...	12

•9542425 required log.

LENGTHS OF CIRCULAR ARCS.

53. In the left and alternate columns, the number of degrees in the arc is given whose length is required. The arcs given in the table belong to a circle whose radius is $= 1$; and to find the length of an arc of a circle whose radius is $= r$, the corresponding tabular arc is to be multiplied by r .

EXAMPLE.

To find the length of an arc of $60^{\circ} 20'$, its radius being 50.

Length of tabular arc of 60° 20'	=	1.0471976 0058178
Length of arc of 60° 20' to radius 1		<u>1.0530154</u> 50

Length of given arc = 52.65077

For exercises to this table, see *Practical Mathematics*, article 281.

MUTUAL CONVERSION OF SIDEREAL AND MEAN TIME.

54. In this table the given time, whether mean or sidereal, is to be found in the left column; and in the next column to the right is the

corresponding correction to be applied by addition or subtraction, according as sidereal or mean time is required.

The correction to be subtracted from sidereal time is called the *retardation* of mean on sidereal time; and the correction to be added to mean time is called the *acceleration* of sidereal on mean time.

The upper half of the table is used for changing solar into sidereal time by adding the correction; and the lower half for changing sidereal into solar time by subtracting the correction.

Given $10^h 18^m 58^s.32$ of mean time, to find the corresponding sidereal time.

Given time			$10^h 18^m 58^s.32$ m. time		
Acceleration on 10^h			0	1	38.57
"	"	$0 18^m$	0	0	2.96
"	"	$0 0 58^s$	0	0	0.16
"	"	$0 0 0^s.32$	0	0	0.00
<hr/>			<hr/>		
$10 18 58.32$			= +	0 1	41.69.
<hr/>			<hr/>		
Required sidereal time			=	10 20	40.01

For an example in reducing sidereal to mean time, see *Practical Mathematics*, article 865.

For a table of time equivalents, see *Nautical Almanac*, pages 502 and 504.

FOR REDUCING LONGITUDE TO TIME.

55. This table is used for reducing longitude to time at the rate of 15° to 1^h .

The degrees, minutes, or seconds are given in the odd columns, and the corresponding time in the even columns. When the first column is reckoned degrees, the second is hours and minutes of time; and when the first is minutes of space, the second is minutes and seconds of time; and so on.

Convert $161^\circ 5' 20''$ of longitude into time.

160°	=	10h	40m	0s
1°	=	0	4	0
5'	=	0	0	20
20"	=	0	0	1.3
<hr/>				
Required time	=	10	44	21.3

FOR REDUCING TIME TO LONGITUDE.

56. This table is the converse of the preceding. The time is given in the odd, and the longitude in the even columns. The corresponding denominations of time and space are to be understood as in the preceding table.

Convert 5h 22^m 10^s 40^t to ^o ngitude.

5h	=	75°	0'	0''
22 ^m	=	5	30	0
10 ^s	=	0	2	30
40 ^t	=	0	0	10
Required longitude	=	80	32	40

LINKS TO BE SUBTRACTED FROM EACH CHAIN IN AN ASCENDING OR DESCENDING LINE, IN ORDER TO REDUCE IT TO THE HORIZONTAL MEASURE.

57. In measuring inclined lands, the lines measured in an acclivity or declivity being longer than their projections on the horizontal plane, must be reduced according to the angle of ascent or descent.*

The number of links to be deducted from each chain, for any number of degrees in the angle, as far as 20°, are given in Part I. of the Table.

The Second Part contains the angles to which corresponds a reduction of a whole number of links or quarter links. As it is more convenient to subtract these numbers than those in Part I., the angle in Part II. nearest to the observed angle may be chosen, and the corresponding number of links used for reduction, which will generally be sufficiently correct in practice.

1. For an angle of 9°, the reduction by Part I. on a line of 12 chains, would be $12 \times 1.24 = 14.88$ links, and the horizontal line is $= 1200 - 14.88 = 1185.12$.

2. For the same angle and line, the reduction by Part II. is $12 \times 1\frac{1}{4} = 15$ links, and the horizontal line is $= 1200 - 15 = 1185$ links.

* See Land-Surveying, article 334, of the *Practical Mathematics* of Chambers's Educational Course.

MEAN MOTION OF SUN FOR PERIODS OF MEAN TIME.

58. This table gives, in parts of space, the mean motion of the mean sun in right ascension for periods of mean time.

Thus, the sun's mean motion in right ascension in 10 hours of mean time is $= 24' 38'' \cdot 460$, and in 10 days it is $9^{\circ} 51' 23'' \cdot 25$.

The mean motion in the table is just equivalent to the retardation in mean time on the corresponding tabular mean time, or to the acceleration in sidereal time on the corresponding tabular time considered as sidereal.

The corresponding mean motion in parts of space in this table, and the accelerations and retardations in the table, page 312, are therefore equivalents.

Thus, for 24 hours mean time, the mean motion is $59' 8'' \cdot 325$, the retardation $3^m 55^s \cdot 91$ mean time, and the acceleration is $3^m 56^s \cdot 56$ sidereal time.*

$$\begin{array}{rclcl}
 \text{Since } 24^h \text{ s.t.} & = & 24^h \text{ m.t.} & - & 3^m 55^s \cdot 91 \text{ m.t.} \\
 \text{Therefore } 24^h \text{ m.t.} & = & 24^h \text{ s.t.} & + & 3^m 55^s \cdot 91 \text{ m.t.} \\
 \text{Also } 24^h \text{ m.t.} & = & 24^h \text{ s.t.} & + & 3^m 56^s \cdot 56 \text{ s.t.} \\
 \text{And } 24^h \text{ m.t.} & = & 360^{\circ} & + & 59' 8'' \cdot 325 \\
 \text{Also } 24^h \text{ s.t.} & = & 360^{\circ} \text{ of Equator, wherefore} & & \\
 59' 8'' \cdot 325 & = & 3^m 56^s \cdot 56 \text{ s.t.} & = & 3^m 55^s \cdot 91 \text{ m.t.}
 \end{array}$$

By converting the time in this table, considered as sidereal, into its value in parts of space (by table, page 313), and adding to it the corresponding mean motion, the sum will be the value of the time, considered as mean time, expressed in parts of the equator.

$$\begin{array}{rcl}
 \text{Thus, } 24^h \text{ m.t.} & = & 24^h \text{ s.t.} + 59' 8'' \cdot 325 \\
 & = & 360^{\circ} 59' 8'' \cdot 325.
 \end{array}$$

DISTANCE OF THE VISIBLE HORIZON.

59. By means of this table the distance of the visible horizon corresponding to any given height can be found by inspection; and conversely.

The distance of the visible horizon for a height of 720 feet is 28.53 miles.

This is, however, the tangential distance; and if the actual distance is required, a correction for refraction must be added. (See *Practical Mathematics*, articles 587 and 594.)

* See article 862, and note to article 833, of *Practical Mathematics* of the Educational Course.

Thus, if the refraction at the time of observation increases the distance $\frac{1}{10}$, then the actual distance for the above example is

$$= 28.53 + 2.85 = 31.38 \text{ miles.}$$

When the distance of the horizon seen from any height is given, the height can be found by the same table. In this case the actual distance is previously to be reduced to the tangential distance by subtracting a necessary correction for refraction.

When the given height is beyond the limits of the table, take $\frac{1}{4}$, $\frac{1}{3}$, or $\frac{1}{2}$,...of it, and multiply the corresponding distance by 2, 3, or 4,...respectively, and the result is the tangential distance. The reason of this rule is, that the heights are proportional to the squares of the distances.

Thus, if the height is 10200, take its fourth, 2550, and the corresponding distance 53.7 multiplied by 2, gives 107.4, the tangential distance for 10200 feet.

In practice, however, the use of the table ought to be limited to 60 or 80 miles.

HEIGHT OF APPARENT ABOVE TRUE LEVEL.

60. This table is very useful in levelling, as it contains the corrections to be deducted from the height of a point on apparent level with another point, in order to determine that which is on a true level with the latter.

Thus, for a distance of 100 chains, the correction is $11\frac{1}{2}$ inches.

So for a distance of 80 chains, or 1 mile, the correction is 8 inches. But if refraction is taken into account, the correction will be $\frac{1}{4}$ less, or = 8 inches — $1\frac{1}{4}$ inch = $6\frac{3}{4}$ inches. Or (*Practical Mathematics*, article 591 or 599) $h = \frac{3}{8} d^2 = \frac{3}{8} \times 1^2 = \frac{3}{8}$ feet = 6.7 inches.

TABLE FOR THE CONVERSION OF THE DIFFERENT THERMOMETRIC SCALES.

61. The conversions in this table have been calculated from the formulæ under article 566 of *Practical Mathematics*. They apply only to integral degrees; the equivalents of fractions being readily ascertained by dividing the difference between the equivalent of the degree given and that of the next higher in the table.

TO REDUCE THE MOON'S HORIZONTAL PARALLAX AND SEMI-DIAMETER TO ANY GIVEN GREENWICH DATE.

62. Find the change in the horizontal parallax or semi-diameter for 12 hours at the top of the table, and under that change, and opposite to the time on the left for which the correction is required, will be found the seconds to be applied by addition or subtraction according as the quantity whose correction is required is increasing or decreasing.

NATURAL TANGENTS AND COTANGENTS, SECANTS AND COSECANTS.

63. This table is used in the same manner as the table of natural sines and cosines, namely, by finding the degrees at the top of the page, and the minutes of the angle at the left side of the page, when the quantity sought is a *tangent* or *secant*; but the degrees must be found at the bottom of the page, and the minutes at the right-hand side of the page, when the quantity sought is a *cotangent* or *cosecant*; the quantity sought will then be found at the angle of intersection of these columns, or it is the only quantity which is common to both columns.

If the given angle contain seconds, find the difference between the quantity corresponding to the minutes in the given angle, and that corresponding to the next higher minute, which will give the change for $1' = 60''$, which call D , and let d be the correction corresponding to the seconds in the given angle, which call s ; then

$$60'' : s'' :: D : d$$

$$\therefore d = \frac{sD}{60} = \text{the correction sought.}$$

This correction must be applied by *addition* if the quantity sought be a tangent or secant, but by *subtraction* if it be a cotangent or cosecant.

If the angle be sought which corresponds to a given tangent or secant, cotangent or cosecant; find the next less, if it be not found exactly in the table, when the given quantity is a tangent or secant, but the next greater when it is a cotangent or cosecant, and take the difference between it and the given quantity, which call d ; also take the difference between this tabular quantity and that corresponding to the next higher minute, which call D ; then

$$D : d :: 60'' : (s = \text{the seconds sought}),$$

$$\therefore s = \frac{60 d}{D}$$

EXAMPLE I.

Find the natural tangent of $42^\circ 17' 43''$.

Natural tangent of $42^\circ 17'$	=	.9093984 +
" " $42^\circ 18'$	=	.9099300

Difference for $60'' = D$		5316
---------------------------	--	------

$d = \frac{43 D}{60} = \frac{43 \times 5316}{60}$		3810 +
---	--	--------

$\therefore \text{natural tangent } 42^\circ 17' 43'' =$.9097794
--	--	----------

EXAMPLE II.

Find the natural cotangent of $42^{\circ} 17' 43''$.

$$\begin{array}{rcl} \text{Natural cotangent of } 42^{\circ} 17' & = & 1.0996281 + \\ & & 42^{\circ} 18' \quad 1.0989857 \end{array}$$

$$\text{Difference for } 60'' = D \quad 6424$$

$$d = \frac{43 D}{60} = \frac{43 \times 6424}{60} \quad 4604 -$$

$$\therefore \text{natural cotangent } 42^{\circ} 17' 43'' = 1.0991677$$

EXAMPLE III.

Find the angle whose natural tangent is .7342856.

$$\text{Given natural tangent} \quad = \quad .7342856$$

$$\text{Natural tangent } 36^{\circ} 17' \quad = \quad .7341253$$

$$\therefore d \quad 1603$$

$$\text{Also natural tangent } 36^{\circ} 18' \quad 7345730$$

$$\therefore D \quad = \quad 4477$$

$$\text{But } s = \frac{60 d}{D} = \frac{60 \times 1603}{4477} = \frac{96180}{4477} = 21''.4.$$

Hence .7342856 = natural tangent of $36^{\circ} 17' 21''.4$.

EXAMPLE IV.

Find the angle whose natural cotangent is 2.1583764.

$$\text{Given natural cotangent} \quad = \quad 2.1583764$$

$$\text{Natural cotangent of } 24^{\circ} 51' \quad = \quad 2.1592476$$

$$\therefore d \quad = \quad 8712$$

$$\text{Also natural cotangent of } 24^{\circ} 52' \quad = \quad 2.1576015$$

$$\therefore D \quad = \quad 16461$$

$$\text{But } s = \frac{60 \times d}{D} = \frac{60 \times 8712}{16461} = \frac{522720}{16461} = 31''.7.$$

Hence 2.1583764 = natural cotangent of $24^{\circ} 51' 31''.7$.

64. The calculations for the secants and cosecants, where the angle involves seconds, is the same as those given above for tangents and cotangents.

DIFFERENCE OF LATITUDE AND DEPARTURE.

65. These tables contain the parts of right-angled plane triangles whose greatest sides are integers not exceeding 300; the angles in

page 344 to 359 being given to every quarter point of the compass, and those from page 360 to 404 to every degree of the quadrant. If the sides of the proposed triangle should exceed the limits of the table, they may be divided by any number that will bring the quotients within these limits; and then the results from the table, multiplied by the same number, will give the required parts of the proposed triangle; observing that the angles must in no case be multiplied and divided.

These tables are very useful in resolving problems in Navigation by inspection, in which right-angled triangles are concerned, when minute accuracy is not required; and from their use in facilitating the reduction of compound courses to single ones, they are called *Traverse Tables*.

Each angle at the top or the bottom of the page may be considered as the vertical angle of a right-angled triangle, and the side opposite that angle is found in the column marked *Dep.*, the adjacent side in the column marked *Lat.*, and the hypotenuse in the column marked *Dist.*, all adjoining each other in the same line.

Thus, with the vertical angle 33° , and base 128, the perpendicular is found 197.1, and the hypotenuse 235. With the perpendicular 115.9, and base 209, the vertical angle is found 61° , and the hypotenuse 239.

With a course of $3\frac{1}{2}$ points, and a distance of 256, the difference of latitude is found 197.9 in the column marked *Lat.*, and the departure 162.4 in the column marked *Dep.* With a middle latitude 39° considered as the vertical angle of a right-angled plane triangle, and a departure of 141.2, considered as the perpendicular of the same triangle, we have the difference of longitude nearly 182, as the hypotenuse in the column marked *Dist.* With a course of 18° , and a meridional difference of latitude of 217 in the column of *Lat.*, we have in the column of *Dep.* nearly 70.5 for the difference of longitude.

NOTE TO TABLE I.

As the first three figures are common to a good many consecutive logarithms, in order to save room, these common figures, beginning at bottom of page 9, are printed only in the first column, and are to be prefixed to the four figures found in the other columns. To indicate when a change takes place in the common figures, a line is placed over the first of the four figures. Thus, in searching for the logarithm of 23713, we find in the first column, in a line with 2371, the common figures 374, and in the same line in the column under 3, the four figures 9865; making the whole logarithm (without the index) .3749865. But in the case of 23714, we find in the column under 4, the figures 0048, indicating that the common figures have changed at this point and become 375, which is the next set found printed in the first column, so that the logarithm is .3750048.

MATHEMATICAL TABLES.

TABLE I.

THE LOGARITHMS OF ALL NUMBERS, FROM 1 TO 100000.

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
1	0.0000000	26	1.4149733	51	1.7075702	76	1.8808136	100	0.0000000
2	0.3010300	27	1.4313638	52	1.7160033	77	1.8864907	101	0.0043214
3	0.4771213	28	1.4471580	53	1.7242759	78	1.8920946	102	0.0086002
4	0.6020600	29	1.4623980	54	1.7323938	79	1.8976271	103	0.0128372
5	0.6989700	30	1.4771213	55	1.7403627	80	1.9030900	104	0.0170333
6	0.7781513	31	1.4913617	56	1.7481880	81	1.9084850	105	0.0211893
7	0.8450980	32	1.5051500	57	1.7558749	82	1.9138139	106	0.0253059
8	0.9030900	33	1.5185139	58	1.7634280	83	1.9190781	107	0.0293838
9	0.9542425	34	1.5314789	59	1.7708520	84	1.9242793	108	0.0334238
10	1.0000000	35	1.5440680	60	1.7781513	85	1.9294189	109	0.0374265
11	1.0413927	36	1.5563025	61	1.7853298	86	1.9344985	110	0.0413927
12	1.0791812	37	1.5682017	62	1.7923917	87	1.9397193	111	0.0453230
13	1.1139434	38	1.5797836	63	1.7993405	88	1.9444827	112	0.0492180
14	1.1461280	39	1.5910646	64	1.8061800	89	1.9493900	113	0.0530784
15	1.1760913	40	1.6020600	65	1.8129134	90	1.9542425	114	0.0569049
16	1.2041200	41	1.6127839	66	1.8195439	91	1.9590414	115	0.0606978
17	1.2304480	42	1.6232493	67	1.8260748	92	1.9637878	116	0.0644580
18	1.2552725	43	1.6334685	68	1.8325089	93	1.9684829	117	0.0681859
19	1.2787536	44	1.6434527	69	1.8388491	94	1.9731279	118	0.0718820
20	1.3010300	45	1.6532125	70	1.8450980	95	1.9777236	119	0.0755470
21	1.3222193	46	1.6627578	71	1.8512583	96	1.9822712	120	0.0791812
22	1.3424227	47	1.6720979	72	1.8573325	97	1.9867717	121	0.0827854
23	1.3617278	48	1.6812412	73	1.8633229	98	1.9912261	122	0.0863598
24	1.3802112	49	1.6901961	74	1.8692317	99	1.9956352	123	0.0899051
25	1.3979400	50	1.6989700	75	1.8750613	100	2.0000000	124	0.0934213

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
125	0969100	173	2380461	221	3443923	269	4297523	317	5010593
126	1003705	174	2405492	222	3463530	270	4313638	318	5024271
127	1038037	175	2430380	223	3483049	271	4329693	319	5037907
128	1072100	176	2455127	224	3502480	272	4345689	320	5051500
129	1105897	177	2479733	225	3521825	273	4361626	321	5065050
130	1139434	178	2504200	226	3541084	274	4377506	322	5078559
131	1172713	179	2528530	227	3560259	275	4393327	323	5092025
132	1205739	180	2552725	228	3579348	276	4409091	324	5105450
133	1238516	181	2576786	229	3598355	277	4424798	325	5118834
134	1271048	182	2600714	230	3617278	278	4440448	326	5132176
135	1303338	183	2624511	231	3636120	279	4456042	327	5145478
136	1335389	184	2648178	232	3654881	280	4471580	328	5158738
137	1367206	185	2671717	233	3673551	281	4487063	329	5171959
138	1398791	186	2695129	234	3692159	282	4502491	330	5185139
139	1430148	187	2718416	235	3710679	283	4517864	331	5198280
140	1461280	188	2741578	236	3729120	284	4533183	332	5211381
141	1492191	189	2764618	237	3747483	285	4548449	333	5224442
142	1522883	190	2787536	238	3765770	286	4563660	334	5237465
143	1553360	191	2810334	239	3783979	287	4578819	335	5250448
144	1583625	192	2833012	240	3802112	288	4593925	336	5263393
145	1613680	193	2855573	241	3820170	289	4608978	337	5276299
146	1643529	194	2878017	242	3838154	290	4623980	338	5289167
147	1673173	195	2900346	243	3856063	291	4638930	339	5301997
148	1702617	196	2922561	244	3873898	292	4653829	340	5314789
149	1731863	197	2944662	245	3891661	293	4668676	341	5327544
150	1760913	198	2966652	246	3909351	294	4683473	342	5340261
151	1789769	199	2988531	247	3926970	295	4698220	343	5352941
152	1818436	200	3010300	248	3944517	296	4712917	344	5365584
153	1846914	201	3031961	249	3961993	297	4727564	345	5378191
154	1875207	202	3053514	250	3979400	298	4742163	346	5390761
155	1903317	203	3074960	251	3996737	299	4756712	347	5403295
156	1931246	204	3096302	252	4014005	300	4771213	348	5415792
157	1958997	205	3117539	253	4031205	301	4785665	349	5428254
158	1986571	206	3138672	254	4048337	302	4800069	350	5440680
159	2013971	207	3159703	255	4065402	303	4814426	351	5453071
160	2041200	208	3180633	256	4082400	304	4828736	352	5465427
161	2068259	209	3201463	257	4099331	305	4842998	353	5477747
162	2095150	210	3222193	258	4116197	306	4857214	354	5490033
163	2121876	211	3242825	259	4132998	307	4871384	355	5502284
164	2148438	212	3263359	260	4149733	308	4885507	356	5514500
165	2174839	213	3283796	261	4166405	309	4899585	357	5526682
166	2201081	214	3304138	262	4183013	310	4913617	358	5538930
167	2227165	215	3324385	263	4199557	311	4927604	359	5550944
168	2253093	216	3344538	264	4216039	312	4941546	360	5563025
169	2278867	217	3364597	265	4232459	313	4955443	361	5575072
170	2304489	218	3384565	266	4248816	314	4969296	362	5587086
171	2329961	219	3404441	267	4265113	315	4983106	363	5599066
172	2355284	220	3424227	268	4281348	316	4996871	364	5611014

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
865	5622929	413	6159501	461	6637009	509	7067178	557	7458552
866	5634811	414	6170003	462	6646420	510	7075702	558	7466342
867	5646661	415	6180481	463	6655810	511	7084209	559	7474118
868	5658478	416	6190933	464	6665180	512	7092700	560	7481880
869	5670264	417	6201361	465	6674530	513	7101174	561	7489629
870	5682017	418	6211763	466	6683859	514	7109631	562	7497363
871	5693739	419	6222140	467	6693169	515	7118072	563	7505084
872	5705429	420	6232493	468	6702459	516	7126497	564	7512791
873	5717088	421	6242821	469	6711728	517	7134905	565	7520484
874	5728716	422	6253125	470	6720979	518	7143298	566	7528164
875	5740313	423	6263404	471	6730209	519	7151674	567	7535831
876	5751878	424	6273659	472	6739420	520	7160033	568	7543483
877	5763414	425	6283889	473	6748611	521	7168377	569	7551123
878	5774918	426	6294096	474	6757783	522	7176705	570	7558749
879	5786392	427	6304279	475	6766936	523	7185017	571	7566361
880	5797836	428	6314438	476	6776070	524	7193313	572	7573960
881	5809250	429	6324573	477	6785184	525	7201593	573	7581546
882	5820634	430	6334685	478	6794279	526	7209857	574	7589119
883	5831988	431	6344773	479	6803355	527	7218106	575	7596678
884	5843312	432	6354837	480	6812412	528	7226339	576	7604225
885	5854607	433	6364879	481	6821451	529	7234557	577	7611758
886	5865873	434	6374897	482	6830470	530	7242759	578	7619278
887	5877110	435	6384893	483	6839471	531	7250945	579	7626786
888	5888317	436	6394865	484	6848454	532	7259116	580	7634280
889	5899496	437	6404814	485	6857417	533	7267272	581	7641761
890	5910646	438	6414741	486	6866363	534	7275413	582	7649230
891	5921768	439	6424645	487	6875290	535	7283538	583	7656686
892	5932861	440	6434527	488	6884198	536	7291648	584	7664128
893	5943926	441	6444386	489	6893089	537	7299743	585	7671559
894	5954962	442	6454223	490	6901961	538	7307823	586	7678976
895	5965971	443	6464037	491	6910815	539	7315888	587	7686381
896	5976952	444	6473830	492	6919651	540	7323938	588	7693773
897	5987905	445	6483600	493	6928469	541	7331973	589	7701153
898	5998831	446	6493349	494	6937269	542	7339993	590	7708620
899	6009729	447	6503075	495	6946052	543	7347998	591	7715875
900	6020600	448	6512780	496	6954817	544	7355989	592	7723217
901	6031444	449	6522463	497	6963564	545	7363965	593	7730547
902	6042261	450	6532125	498	6972293	546	7371926	594	7737864
903	6053050	451	6541765	499	6981005	547	7379873	595	7745170
904	6063814	452	6551384	500	6989700	548	7387806	596	7752463
905	6074550	453	6560982	501	6998377	549	7395723	597	7759743
906	6085260	454	6570559	502	7007037	550	7403627	598	7767012
907	6095944	455	6580134	503	7015680	551	7411516	599	7774268
908	6106602	456	6589648	504	7024305	552	7419391	600	7781513
909	6117233	457	6599162	505	7032914	553	7427251	601	7788745
910	6127839	458	6608655	506	7041505	554	7435098	602	7795965
911	6138418	459	6618127	507	7050080	555	7442930	603	7803173
912	6148972	460	6627578	508	7058637	556	7450748	604	7810369

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
605	7817554	653	8149132	701	8457180	749	8744818	797	9014583
606	7824726	654	8155777	702	8463371	750	8750613	798	9020029
607	7831887	655	8162413	703	8469553	751	8756399	799	9025468
608	7839036	656	8169038	704	8475727	752	8762178	800	9030900
609	7846173	657	8175654	705	8481891	753	8767950	801	9036325
610	7853298	658	8182259	706	8488047	754	8773713	802	9041744
611	7860412	659	8188854	707	8494194	755	8779470	803	9047155
612	7867514	660	8195439	708	8500333	756	8785218	804	9052560
613	7874605	661	8202015	709	8506462	757	8790959	805	9057959
614	7881684	662	8208580	710	8512583	758	8796692	806	9063350
615	7888751	663	8215135	711	8518696	759	8802418	807	9068735
616	7895807	664	8221681	712	8524800	760	8808136	808	9074114
617	7902852	665	8228216	713	8530851	761	8813847	809	9079485
618	7909885	666	8234742	714	8536952	762	8819550	810	9084850
619	7916906	667	8241258	715	8543060	763	8825245	811	9090209
620	7923917	668	8247765	716	8549130	764	8830934	812	9095560
621	7930916	669	8254261	717	8555192	765	8836614	813	9100905
622	7937904	670	8260748	718	8561244	766	8842288	814	9106244
623	7944880	671	8267225	719	8567289	767	8847954	815	9111576
624	7951846	672	8273693	720	8573325	768	8853612	816	9116902
625	7958800	673	8280151	721	8579353	769	8859263	817	9122221
626	7965743	674	8286599	722	8585372	770	8864907	818	9127533
627	7972675	675	8293038	723	8591383	771	8870544	819	9132839
628	7979596	676	8299467	724	8597386	772	8876173	820	9138139
629	7986506	677	8305887	725	8603380	773	8881795	821	9143432
630	7993405	678	8312297	726	8609366	774	8887410	822	9148718
631	8000294	679	8318698	727	8615344	775	8893017	823	9153998
632	8007171	680	8325089	728	8621314	776	8898617	824	9159272
633	8014037	681	8331471	729	8627275	777	8904210	825	9164539
634	8020893	682	8337844	730	8633229	778	8909796	826	9169800
635	8027737	683	8344207	731	8639174	779	8915375	827	9175055
636	8034571	684	8350561	732	8645111	780	8920946	828	9180303
637	8041394	685	8356906	733	8651040	781	8926510	829	9185545
638	8048207	686	8363241	734	8656961	782	8932068	830	9190781
639	8055009	687	8369567	735	8662873	783	8937618	831	9196010
640	8061800	688	8375884	736	8668778	784	8943161	832	9201233
641	8068580	689	8382192	737	8674675	785	8948697	833	9206450
642	8075350	690	8388491	738	8680564	786	8954225	834	9211661
643	8082110	691	8394780	739	8686444	787	8959747	835	9216865
644	8088859	692	8401061	740	8692317	788	8965262	836	9222063
645	8095597	693	8407332	741	8698182	789	8970770	837	9227255
646	8102325	694	8413595	742	8704039	790	8976271	838	9232440
647	8109043	695	8419848	743	8709888	791	8981765	839	9237620
648	8115750	696	8426092	744	8715729	792	8987252	840	9242793
649	8122447	697	8432328	745	8721563	793	8992732	841	9247960
650	8129134	698	8438554	746	8727388	794	8998205	842	9253121
651	8135810	699	8444772	747	8733206	795	9003671	843	9258276
652	8142476	700	8450980	748	8739016	796	9009131	844	9263424

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
845	9268567	876	9425041	907	9576073	938	9722028	969	9863238
846	9273704	877	9429996	908	9580858	939	9726656	970	9867717
847	9278834	878	9434945	909	9585639	940	9731279	971	9872192
848	9283959	879	9439889	910	9590414	941	9735896	972	9876663
849	9289077	880	9444827	911	9595184	942	9740509	973	9881128
850	9294189	881	9449759	912	9599948	943	9745117	974	9885590
851	9299296	882	9454686	913	9604708	944	9749720	975	9890046
852	9304396	883	9459607	914	9609462	945	9754318	976	9894498
853	9309490	884	9464523	915	9614211	946	9758911	977	9898946
854	9314579	885	9469433	916	9618955	947	9763500	978	9903389
855	9319661	886	9474337	917	9623693	948	9768083	979	9907827
856	9324738	887	9479236	918	9628427	949	9772662	980	9912261
857	9329808	888	9484130	919	9633155	950	9777236	981	9916690
858	9334873	889	9489018	920	9637878	951	9781805	982	9921115
859	9339932	890	9493900	921	9642596	952	9786369	983	9925535
860	9344985	891	9498777	922	9647309	953	9790929	984	9929951
861	9350032	892	9503649	923	9652017	954	9795484	985	9934362
862	9355073	893	9508515	924	9656720	955	9800034	986	9938769
863	9360108	894	9513375	925	9661417	956	9804579	987	9943172
864	9365137	895	9518230	926	9666110	957	9809119	988	9947569
865	9370161	896	9523080	927	9670797	958	9813655	989	9951963
866	9375179	897	9527924	928	9675480	959	9818186	990	9956352
867	9380191	898	9532763	929	9680157	960	9822712	991	9960737
868	9385197	899	9537597	930	9684829	961	9827234	992	9965117
869	9390198	900	9542425	931	9689497	962	9831751	993	9969492
870	9395193	901	9547248	932	9694159	963	9836263	994	9973864
871	9400182	902	9552065	933	9698816	964	9840770	995	9978231
872	9405165	903	9556878	934	9703469	965	9845273	996	9982593
873	9410142	904	9561684	935	9708116	966	9849771	997	9986952
874	9415114	905	9566486	936	9712758	967	9854265	998	9991305
875	9420081	906	9571282	937	9717396	968	9858754	999	9995655

Numbers.	LOGARITHMS.										Differences.
	0	1	2	3	4	5	6	7	8	9	
1000	0000000	0434	0869	1303	1737	2171	2605	3039	3473	3907	434
01	4341	4775	5208	5642	6076	6510	6943	7377	7810	8244	
02	8677	9111	9544	9977	0411	0844	1277	1710	2143	2576	433
03	0013009	3442	3875	4308	4741	5174	5607	6039	6472	6905	
04	7337	7770	8202	8635	9067	9499	9932	0364	0796	1228	
05	0021661	2093	2525	2957	3389	3821	4253	4685	5116	5548	432
06	5980	6411	6843	7275	7706	8138	8569	9001	9432	9863	
07	0030295	0726	1157	1588	2019	2451	2882	3313	3744	4174	431
Differences.	434	43	87	130	174	217	260	304	347	391	
	433	43	87	130	173	217	260	303	346	390	
	432	43	86	130	173	216	259	302	346	389	
	431	43	86	129	172	216	259	302	345	388	
	430	43	86	129	172	215	258	301	344	387	

No.	0	1	2	3	4	5	6	7	8	9	D.
1008	0034605	5036	5467	5898	6328	6759	7190	7620	8051	8481	
09	8912	9342	9772	0203	0633	1063	1493	1924	2354	2784	430
1010	0043214	3644	4074	4504	4933	5363	5793	6223	6652	7082	
11	7512	7941	8371	8800	9229	9659	0088	0517	0947	1376	429
12	0051805	2234	2663	3092	3521	3950	4379	4808	5237	5666	
13	6094	6523	6952	7380	7809	8238	8666	9094	9523	9951	428
14	0060380	0808	1236	1664	2092	2521	2949	3377	3805	4233	
15	4660	5088	5516	5944	6372	6799	7227	7655	8082	8510	
16	8937	9365	9792	0219	0647	1074	1501	1928	2355	2782	427
17	0073210	3637	4064	4490	4917	5344	5771	6198	6624	7051	
18	7478	7904	8331	8757	9184	9611	0037	0463	0889	1316	426
19	0081742	2168	2594	3020	3446	3872	4298	4724	5150	5576	
1020	6002	6427	6853	7279	7704	8130	8556	8981	9407	9832	
21	0090257	0683	1108	1533	1959	2384	2809	3234	3659	4084	425
22	4509	4934	5359	5784	6208	6633	7058	7483	7907	8332	
23	8756	9181	9605	0030	0454	0878	1303	1727	2151	2575	424
24	0103000	3424	3848	4272	4696	5120	5544	5967	6391	6815	
25	7239	7662	8086	8510	8933	9357	9780	0204	0627	1050	
26	0111474	1897	2320	2743	3166	3590	4013	4436	4859	5282	423
27	5704	6127	6550	6973	7396	7818	8241	8664	9086	9509	
28	9931	0354	0776	1198	1621	2043	2465	2887	3310	3732	422
29	0124154	4576	4998	5420	5842	6264	6685	7107	7529	7951	
1030	8372	8794	9215	9637	0059	0480	0901	1323	1744	2165	
31	0132587	3008	3429	3850	4271	4692	5113	5534	5955	6376	421
32	6797	7218	7639	8059	8480	8901	9321	9742	0162	0583	
33	0141003	1424	1844	2264	2685	3105	3525	3945	4365	4785	420
34	5205	5625	6045	6465	6885	7305	7725	8144	8564	8984	
35	9403	9823	0243	0662	1082	1501	1920	2340	2759	3178	
36	0153598	4017	4436	4855	5274	5693	6112	6531	6950	7369	419
37	7788	8206	8625	9044	9462	9881	0300	0718	1137	1555	
38	0161974	2392	2810	3229	3647	4065	4483	4901	5319	5737	418
39	6155	6573	6991	7409	7827	8245	8663	9080	9498	9916	
1040	0170333	0751	1168	1586	2003	2421	2838	3256	3673	4090	
41	4507	4924	5342	5759	6176	6593	7010	7427	7844	8260	417
Differences.	429	43	86	129	172	215	257	300	343	386	
	428	43	86	128	171	214	257	300	342	385	
	427	43	85	128	171	214	256	299	342	384	
	426	43	85	128	170	213	256	298	341	383	
	425	43	85	128	170	213	255	298	340	383	
	424	42	85	127	170	212	254	297	339	382	
	423	42	85	127	169	212	254	296	338	381	
	422	42	84	127	169	211	253	295	338	380	
	421	42	84	126	168	211	253	295	337	379	
	420	42	84	126	168	210	252	294	336	378	
	419	42	84	126	168	210	251	293	335	377	
	418	42	84	125	167	209	251	293	334	376	
	417	42	83	125	167	209	250	292	334	375	

No.	0	1	2	3	4	5	6	7	8	9	D.
1042	0178677	9094	9511	9927	0344	0761	1177	1594	2010	2427	
43	0182843	3259	3676	4092	4508	4925	5341	5757	6173	6589	416
44	7005	7421	7837	8253	8669	9084	9500	9916	0332	0747	
45	0191163	1578	1994	2410	2825	3240	3656	4071	4486	4902	415
46	5317	5732	6147	6562	6977	7392	7807	8222	8637	9052	
47	9467	9882	0296	0711	1126	1540	1955	2369	2784	3198	
48	0203613	4027	4442	4856	5270	5684	6099	6513	6927	7341	414
49	7755	8169	8583	8997	9411	9824	0238	0652	1066	1479	
1050	0211898	2307	2720	3134	3547	3961	4374	4787	5201	5614	
51	6027	6440	6854	7267	7680	8093	8506	8919	9332	9745	413
52	0220157	0570	0983	1396	1808	2221	2634	3046	3459	3871	
53	4284	4696	5109	5521	5933	6345	6758	7170	7582	7994	412
54	8406	8818	9230	9642	0054	0466	0878	1289	1701	2113	
55	0232525	2936	3348	3759	4171	4582	4994	5405	5817	6228	411
56	6639	7050	7462	7873	8284	8695	9106	9517	9928	0339	
57	0240750	1161	1572	1982	2393	2804	3214	3625	4036	4446	410
58	4857	5267	5678	6088	6498	6909	7319	7729	8139	8549	
59	8960	9370	9780	0190	0600	1010	1419	1829	2239	2649	409
1060	0253059	3468	3878	4288	4697	5107	5516	5926	6335	6744	
61	7154	7563	7972	8382	8791	9200	9609	0018	0427	0836	
62	0261245	1654	2063	2472	2881	3289	3698	4107	4515	4924	408
63	5333	5741	6150	6558	6967	7375	7783	8192	8600	9008	
64	9416	9824	0233	0641	1049	1457	1865	2273	2680	3088	
65	0273496	3904	4312	4719	5127	5535	5942	6350	6757	7165	407
66	7572	7979	8387	8794	9201	9609	0016	0423	0830	1237	
67	0281644	2051	2458	2865	3272	3679	4086	4492	4899	5306	
68	5713	6119	6526	6932	7339	7745	8152	8558	8964	9371	406
69	9777	0183	0590	0996	1402	1808	2214	2620	3026	3432	
1070	0293838	4244	4649	5055	5461	5867	6272	6678	7084	7489	
71	7895	8300	8706	9111	9516	9922	0327	0732	1138	1543	405
72	0301948	2353	2758	3163	3568	3973	4378	4783	5188	5592	
73	5997	6402	6807	7211	7616	8020	8425	8830	9234	9638	
74	0310043	0447	0851	1256	1660	2064	2468	2872	3277	3681	404
75	4085	4489	4893	5296	5700	6104	6508	6912	7315	7719	
Differences.	416	42	83	125	166	208	250	291	333	374	
	415	42	83	125	166	208	249	291	332	374	
	414	41	83	124	166	207	248	290	331	373	
	413	41	83	124	165	207	248	289	330	372	
	412	41	82	124	165	206	247	288	330	371	
	411	41	82	123	164	206	247	288	329	370	
	410	41	82	123	164	205	246	287	328	368	
	409	41	82	123	164	205	245	286	327	368	
	408	41	82	122	163	204	245	286	326	367	
	407	41	81	122	163	204	244	285	326	366	
	406	41	81	122	162	203	244	284	325	365	
	405	41	81	122	162	203	243	284	324	365	
	404	40	81	121	162	202	242	283	323	364	

No.	0	1	2	3	4	5	6	7	8	9	D.
1076	0318123	8526	8930	9333	9737	0140	0544	0947	1350	1754	403
77	0322157	2560	2963	3367	3770	4173	4576	4979	5382	5785	
78	6188	6590	6993	7396	7799	8201	8604	9007	9409	9812	402
79	0330214	0617	1019	1422	1824	2226	2629	3031	3433	3835	
1080	4238	4640	5042	5444	5846	6248	6650	7052	7453	7855	
81	8257	8659	9060	9462	9864	0265	0667	1068	1470	1871	401
82	0342273	2674	3075	3477	3878	4279	4680	5081	5482	5884	
83	6285	6686	7087	7487	7888	8289	8690	9091	9491	9892	400
84	0350293	0693	1094	1495	1895	2296	2696	3096	3497	3897	
85	4297	4698	5098	5498	5898	6298	6698	7098	7498	7898	
86	8298	8698	9098	9498	9898	0297	0697	1097	1496	1896	399
87	0362295	2695	3094	3494	3893	4294	4692	5091	5491	5890	
88	6289	6688	7087	7486	7885	8284	8683	9082	9481	9880	
89	0370279	0678	1076	1475	1874	2272	2671	3070	3468	3867	398
1090	4265	4663	5062	5460	5858	6257	6655	7053	7451	7849	
91	8248	8646	9044	9442	9839	0237	0635	1033	1431	1829	
92	0382226	2624	3022	3419	3817	4214	4612	5009	5407	5804	397
93	6202	6599	6996	7393	7791	8188	8585	8982	9379	9776	
94	0390173	0570	0967	1364	1761	2158	2554	2951	3348	3745	
95	4141	4538	4934	5331	5727	6124	6520	6917	7313	7709	396
96	8106	8502	8898	9294	9690	0086	0482	0878	1274	1670	
97	0402066	2462	2858	3254	3650	4045	4441	4837	5232	5628	
98	6023	6419	6814	7210	7605	8001	8396	8791	9187	9582	395
99	9977	0372	0767	1162	1557	1952	2347	2742	3137	3532	
1100	0413927	4322	4716	5111	5506	5900	6295	6690	7084	7479	
01	7873	8268	8662	9056	9451	9845	0239	0633	1028	1422	394
02	0421816	2210	2604	2998	3392	3786	4180	4574	4968	5361	
03	5755	6149	6543	6936	7330	7723	8117	8510	8904	9297	393
04	9691	0084	0477	0871	1264	1657	2050	2444	2837	3230	
05	0433623	4016	4409	4802	5195	5587	5980	6373	6766	7159	
06	7551	7944	8337	8729	9122	9514	9907	0299	0692	1084	392
07	0441476	1869	2261	2653	3045	3437	3829	4222	4614	5006	
08	5398	5790	6181	6573	6965	7357	7749	8140	8532	8924	
09	9315	9707	0099	0490	0882	1273	1664	2056	2447	2839	391
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Differences.	403	40	81	121	161	202	242	282	322	363	
	402	40	80	121	161	201	241	281	322	362	
	401	40	80	120	160	201	241	281	321	361	
	400	40	80	120	160	200	240	280	320	360	
	399	40	80	120	160	200	239	279	319	359	
	398	40	80	119	159	199	239	279	318	358	
	397	40	79	119	159	199	238	278	318	357	
	396	40	79	119	158	198	238	277	317	356	
	395	40	79	119	158	198	237	277	316	356	
	394	39	79	118	158	197	236	276	315	355	
	393	39	79	118	157	197	236	275	314	354	
	392	39	78	118	157	196	235	274	314	353	
	391	39	78	117	156	196	235	274	313	352	

No.	0	1	2	3	4	5	6	7	8	9	D.
1110	0453230	3621	4012	4403	4795	5186	5577	5968	6359	6750	
11	7141	7531	7922	8313	8704	9095	9485	9876	0267	0657	
12	0461048	1438	1829	2219	2610	3000	3391	3781	4171	4561	390
13	4952	5342	5732	6122	6512	6902	7292	7682	8072	8462	
14	8852	9242	9632	0021	0411	0801	1190	1580	1970	2359	
15	0472749	3138	3528	3917	4306	4696	5085	5474	5864	6253	389
16	6642	7031	7420	7809	8198	8587	8976	9365	9754	0143	
17	0480532	0921	1309	1698	2087	2475	2864	3253	3641	4030	388
18	4418	4806	5195	5583	5972	6360	6748	7136	7525	7913	
19	8301	8689	9077	9465	9853	0241	0629	1017	1405	1792	
1120	0492180	2568	2956	3343	3731	4119	4506	4894	5281	5669	
21	6056	6444	6831	7218	7606	7993	8380	8767	9154	9541	387
22	9929	0316	0703	1090	1477	1863	2250	2637	3024	3411	
23	0503798	4184	4571	4958	5344	5731	6117	6504	6890	7277	386
24	7663	8049	8436	8822	9208	9595	9981	0367	0753	1139	
25	0511525	1911	2297	2683	3069	3455	3841	4227	4612	4998	
26	5384	5770	6155	6541	6926	7312	7697	8083	8468	8854	385
27	9239	9624	0010	0395	0780	1166	1551	1936	2321	2706	
28	0523091	3476	3861	4246	4631	5016	5400	5785	6170	6555	384
29	6939	7324	7709	8093	8478	8862	9247	9631	0016	0400	
1130	0530784	1169	1553	1937	2321	2706	3090	3474	3858	4242	
31	4626	5010	5394	5778	6162	6546	6929	7313	7697	8081	
32	8464	8848	9232	9615	9999	0382	0766	1149	1532	1916	383
33	0542299	2682	3066	3449	3832	4215	4598	4981	5365	5748	
34	6131	6514	6896	7279	7662	8045	8428	8811	9193	9576	
35	9959	0341	0724	1106	1489	1871	2254	2636	3019	3401	382
36	0553783	4166	4548	4930	5312	5694	6077	6459	6841	7223	
37	7605	7987	8369	8750	9132	9514	9896	0278	0659	1041	
38	0561423	1804	2186	2567	2949	3330	3712	4093	4475	4856	
39	5237	5619	6000	6381	6762	7143	7524	7905	8287	8668	381
1140	9049	9429	9810	0191	0572	0953	1334	1714	2095	2476	
41	0572856	3237	3618	3998	4379	4759	5140	5520	5900	6281	380
42	6661	7041	7422	7802	8182	8562	8942	9322	9702	0082	
43	0580462	0842	1222	1602	1982	2362	2741	3121	3501	3881	
44	4260	4640	5019	5399	5778	6158	6537	6917	7296	7676	379
Differences.											
Proportional Parts.		390	39	78	117	156	195	234	273	312	351
		389	39	78	117	156	195	233	272	311	350
		388	39	78	116	155	194	233	272	310	349
		387	39	77	116	155	194	232	271	310	348
		386	39	77	116	154	193	232	270	309	347
		385	39	77	116	154	193	231	270	308	347
		384	38	77	115	154	192	230	269	307	346
		383	38	77	115	153	192	230	268	306	345
		382	38	76	115	153	191	229	267	306	344
		381	38	76	114	152	191	229	267	305	343
		380	38	76	114	152	190	228	266	304	342
		379	38	76	114	152	190	227	265	303	341

No.	0	1	2	3	4	5	6	7	8	9	D.
1145	0588055	8434	8813	9193	9572	9951	0330	0709	1088	1467	
46	0591846	2225	2604	2983	3362	3741	4119	4498	4877	5256	378
47	5634	6013	6391	6770	7148	7527	7905	8284	8662	9041	
48	9119	9797	0175	0554	0932	1310	1688	2066	2444	2822	
49	0603200	3578	3956	4334	4712	5090	5468	5845	6223	6601	377
1150	6978	7356	7734	8111	8489	8866	9244	9621	9999	0376	
51	0610753	1131	1508	1885	2262	2639	3017	3394	3771	4148	
52	4525	4902	5279	5656	6032	6409	6786	7163	7540	7916	376
53	8293	8670	9046	9423	9799	0176	0552	0929	1305	1682	
54	0622058	2434	2811	3187	3563	3939	4316	4692	5068	5444	
55	5820	6196	6572	6948	7324	76	8075	8451	8827	9203	
56	9578	9954	0330	0705	1081	1457	1832	2207	2583	2958	375
57	0633334	3709	4084	4460	4835	5210	5585	5960	6335	6711	
58	7086	7461	7836	8211	8585	8960	9335	9710	0085	0460	
59	0640834	1209	1584	1958	2333	2708	3082	3457	3831	4205	374
1160	4580	4954	5329	5703	6077	6451	6826	7200	7574	7948	
61	8322	8696	9070	9444	9818	0192	0566	0940	1314	1688	
62	0652061	2435	2809	3182	3556	3930	4303	4677	5050	5424	
63	5797	6171	6544	6917	7291	7664	8037	8410	8784	9157	373
64	9530	9903	0276	0649	1022	1395	1768	2141	2514	2886	
65	0663259	3632	4005	4377	4750	5123	5495	5868	6241	6613	
66	6986	7358	7730	8103	8475	8847	9220	9592	9964	0336	372
67	0670709	1081	1453	1825	2197	2569	2941	3313	3685	4057	
68	4428	4800	5172	5544	5915	6287	6659	7030	7402	7774	
69	8145	8517	8888	9259	9631	0002	0374	0745	1116	1487	371
1170	0681859	2230	2601	2972	3343	3714	4085	4456	4827	5198	
71	5569	5940	6311	6681	7052	7423	7794	8164	8535	8906	
72	9276	9647	0017	0388	0758	1129	1499	1870	2240	2610	370
73	0692980	3350	3721	4091	4461	4831	5201	5571	5941	6311	
74	6681	7051	7421	7791	8160	8530	8900	9270	9639	0009	
75	0700379	0748	1118	1487	1857	2226	2596	2965	3335	3704	369
76	4073	4442	4812	5181	5550	5919	6288	6658	7027	7396	
77	7765	8134	8503	8871	9240	9609	9978	0347	0715	1084	
78	0711453	1822	2190	2559	2927	3296	3665	4033	4401	4770	368
79	5138	5506	5875	6243	6611	6979	7348	7716	8084	8452	
1180	8820	9188	9556	9924	0292	0660	1028	1396	1763	2131	
Differences.											
Proportional Parts.											
378	38	76	113	151	189	227	265	302	340		
377	38	75	113	151	189	226	264	302	339		
376	38	75	113	150	188	226	263	301	338		
375	38	75	113	150	188	225	263	300	337		
374	37	75	112	150	187	224	262	299	337		
373	37	75	112	149	187	224	261	298	336		
372	37	74	112	149	186	223	260	298	335		
371	37	74	111	148	186	223	260	297	334		
370	37	74	111	148	185	222	259	296	333		
369	37	74	111	148	185	221	258	295	332		
368	37	74	110	147	184	221	258	294	331		

No.	0	1	2	3	4	5	6	7	8	9	D.
1181	0722499	2867	3234	3602	3970	4337	4705	5072	5440	5807	367
82	6175	6542	6910	7277	7644	8011	8379	8746	9113	9480	
83	9847	0215	0582	0949	1316	1683	2050	2416	2783	3150	
84	0733517	3884	4251	4617	4984	5351	5717	6084	6450	6817	366
85	7184	7550	7916	8283	8649	9016	9382	9748	0114	0481	
86	0740847	1213	1579	1945	2311	2677	3043	3409	3775	4141	
87	4507	4873	5239	5605	5970	6336	6702	7068	7433	7799	
88	8164	8530	8895	9261	9626	9992	0357	0723	1088	1453	365
89	0751819	2184	2549	2914	3279	3644	4010	4375	4740	5105	
1190	5470	5835	6199	6564	6929	7294	7659	8024	8388	8753	
91	9118	9482	9847	0211	0576	0940	1305	1669	2034	2398	364
92	0762763	3127	3491	3855	4220	4584	4948	5312	5676	6040	
93	6404	6768	7132	7496	7860	8224	8588	8952	9316	9680	
94	0770043	0407	0771	1134	1498	1862	2225	2589	2952	3316	363
95	3679	4042	4406	4769	5133	5496	5859	6222	6585	6949	
96	7312	7675	8038	8401	8764	9127	9490	9853	0216	0579	
97	0780942	1304	1667	2030	2393	2755	3118	3480	3843	4206	362
98	4568	4931	5293	5656	6018	6380	6743	7105	7467	7830	
99	8192	8554	8916	9278	9640	0003	0365	0727	1089	1451	
1200	0791812	2174	2536	2898	3260	3622	3983	4345	4707	5068	
01	5430	5792	6153	6515	6876	7238	7599	7961	8322	8683	361
02	9045	9406	9767	0128	0489	0851	1212	1573	1934	2295	
03	0802000	0167	0538	0909	1280	1651	2022	2393	2764	3135	360
04	6290	6651	6986	7347	7707	8068	8429	8789	9150	9510	
05	0812111	0172	0531	0891	1251	1611	1972	2332	2693	3053	
06	0812111	0172	0531	0891	1251	1611	1972	2332	2693	3053	
07	7907	8267	8627	8987	9347	9707	0067	0427	0787	1147	359
08	0820000	0160	0520	0880	1240	1600	1960	2320	2680	3040	
09	4905	5265	5625	5985	6345	6705	7065	7425	7785	8145	
1210	7854	8214	8574	8934	9294	9654	0014	0374	0734	1094	358
11	0831441	1800	2159	2517	2876	3234	3593	3951	4309	4668	
12	5026	5385	5743	6101	6459	6817	7176	7534	7892	8250	
13	8608	8966	9324	9682	0040	0398	0756	1114	1471	1829	
14	0842187	2545	2902	3260	3618	3975	4333	4690	5048	5405	357
15	5763	6120	6478	6835	7192	7550	7907	8264	8621	8979	
16	9355	9692	0050	0407	0764	1121	1478	1835	2192	2549	
Differences.											
Proportional Parts.											
367	37	73	110	147	184	220	257	294	330		
366	37	73	110	146	183	220	256	293	329		
365	37	73	110	146	183	219	256	292	329		
364	36	73	109	146	182	218	255	291	328		
363	36	73	109	145	182	218	254	290	327		
362	36	72	109	145	181	217	253	290	326		
361	36	72	108	144	181	217	253	289	325		
360	36	72	108	144	180	216	252	288	324		
359	36	72	108	144	180	215	251	287	323		
358	36	72	107	143	179	215	251	286	322		
357	36	71	107	143	179	214	250	286	321		

No.	0	1	2	3	4	5	6	7	8	9	D.
1253	0979511	9857	0204	0550	0897	1243	1590	1936	2283	2629	
54	0982975	3722	3668	4014	4360	4707	5053	5399	5745	6091	
55	6437	6783	7129	7475	7821	8167	8513	8859	9205	9551	
56	9896	0242	0588	0934	1279	1625	1971	2316	2662	3007	345
57	0993353	3698	4044	4389	4735	5080	5425	5771	6116	6461	
58	6806	7152	7497	7842	8187	8532	8877	9222	9567	9912	
59	1000257	0602	0947	1292	1637	1982	2327	2671	3016	3361	
1260	3705	4050	4395	4739	5084	5429	5773	6118	6462	6806	344
61	7151	7495	7840	8184	8528	8873	9217	9561	9905	0249	
62	1010594	0938	1282	1626	1970	2314	2658	3002	3346	3690	
63	4034	4377	4721	5065	5409	5752	6096	6440	6784	7127	
64	7471	7814	8158	8501	8845	9188	9532	9875	0219	0562	343
65	1020905	1249	1592	1935	2278	2621	2965	3308	3651	3994	
66	4337	4680	5023	5366	5709	6052	6395	6738	7081	7423	
67	7766	8109	8452	8794	9137	9480	9822	0165	0507	0850	
68	1031193	1535	1877	2220	2562	2905	3247	3589	3932	4274	342
69	4616	4958	5301	5643	5985	6327	6669	7011	7353	7695	
1270	8037	8379	8721	9063	9405	9747	0089	0430	0772	1114	
71	1041456	1797	2139	2480	2822	3164	3505	3847	4188	4530	
72	4871	5213	5554	5895	6237	6578	6919	7260	7602	7943	341
73	8284	8625	8966	9307	9648	9989	0331	0671	1012	1353	
74	1051694	2035	2376	2717	3058	3398	3739	4080	4421	4761	
75	5102	5442	5783	6124	6464	6805	7145	7486	7826	8166	
76	8507	8847	9187	9528	9868	0208	0548	0889	1229	1569	340
77	1061909	2249	2589	2929	3269	3609	3949	4289	4629	4969	
78	5309	5648	5988	6328	6668	7007	7347	7687	8026	8366	
79	8705	9045	9385	9724	0063	0403	0742	1082	1421	1760	339
1280	1072100	2439	2778	3117	3457	3796	4135	4474	4813	5152	
81	5491	5830	6169	6508	6847	7186	7525	7864	8203	8541	
82	8880	9219	9558	9896	0235	0574	0912	1251	1590	1928	
83	1082267	2605	2944	3282	3620	3959	4297	4635	4974	5312	338
84	5650	5988	6327	6665	7003	7341	7679	8017	8355	8693	
85	9031	9369	9707	0045	0383	0721	1059	1396	1734	2072	
86	1092410	2747	3085	3423	3760	4098	4435	4773	5111	5448	337
87	5785	6123	6460	6798	7135	7472	7810	8147	8484	8821	
88	9159	9496	9833	0170	0507	0844	1181	1518	1855	2192	
89	1102529	2866	3203	3540	3877	4213	4550	4887	5224	5560	336
Differences.											
Proportional Parts.	345	35	69	104	138	173	207	242	276	311	
	344	34	69	103	138	172	206	241	275	310	
	343	34	69	103	137	172	206	240	274	309	
	342	34	68	103	137	171	205	239	274	308	
	341	34	68	102	136	171	205	239	273	307	
	340	34	68	102	136	170	204	238	272	306	
	339	34	68	102	136	170	203	237	271	305	
	338	34	68	101	135	169	203	237	270	304	
	337	34	67	101	135	169	202	236	270	303	
	336	34	67	101	134	168	202	235	269	302	

No.	0	1	2	3	4	5	6	7	8	9	D.
1290	1105897	6234	6570	6907	7244	7580	7917	8253	8590	8926	
91	9262	9599	9935	0272	0608	0944	1280	1617	1953	2289	
92	1112625	2961	3297	3633	3969	4306	4642	4977	5313	5649	
93	5985	6321	6657	6993	7329	7664	8000	8336	8671	9007	335
94	9343	9678	0014	0350	0685	1021	1356	1691	2027	2362	
95	1122698	3033	3368	3704	4039	4374	4709	5045	5380	5715	
96	6050	6385	6720	7055	7390	7725	8060	8395	8730	9065	
97	9400	9735	0069	0404	0739	1074	1408	1743	2078	2412	334
98	1132747	3081	3416	3751	4085	4420	4754	5088	5423	5757	
99	6092	6426	6760	7094	7429	7763	8097	8431	8765	9099	
1300	9434	9768	0102	0436	0770	1104	1437	1771	2105	2439	
01	1142773	3107	3441	3774	4108	4442	4775	5109	5443	5776	333
02	6110	6443	6777	7110	7444	7777	8111	8444	8777	9111	
03	9444	9777	0111	0444	0777	1110	1444	1777	2110	2443	
04	1152776	3109	3442	3775	4108	4441	4774	5107	5439	5772	
05	6105	6438	6771	7103	7436	7769	8101	8434	8767	9099	
06	9432	9764	0097	0429	0762	1094	1427	1759	2091	2424	332
07	1162756	3088	3420	3753	4085	4417	4749	5081	5413	5745	
08	6077	6409	6741	7073	7405	7737	8069	8401	8733	9065	
09	9396	9728	0060	0392	0723	1055	1387	1718	2050	2381	
1310	1172713	3044	3376	3707	4039	4370	4702	5033	5364	5696	
11	6027	6358	6689	7021	7352	7683	8014	8345	8676	9007	331
12	9338	9669	0000	0331	0662	0993	1324	1655	1986	2316	
13	1182647	2978	3309	3639	3970	4301	4631	4962	5293	5623	
14	5954	6284	6615	6945	7276	7606	7936	8267	8597	8927	330
15	9258	9588	9918	0248	0578	0909	1239	1569	1899	2229	
16	1192559	2889	3219	3549	3879	4209	4539	4868	5198	5528	
17	5858	6187	6517	6847	7177	7506	7836	8165	8495	8825	329
18	9154	9484	9813	0143	0472	0801	1131	1460	1789	2119	
19	1202448	2777	3106	3436	3765	4094	4423	4752	5081	5410	
1320	5739	6068	6397	6726	7055	7384	7713	8042	8371	8699	
21	9028	9357	9686	0014	0343	0672	1000	1329	1657	1986	328
22	1212315	2643	2972	3300	3628	3957	4285	4614	4942	5270	
23	5598	5927	6255	6583	6911	7239	7568	7896	8224	8552	
24	8880	9208	9536	9864	0192	0520	0848	1175	1503	1831	
25	1222159	2487	2814	3142	3470	3797	4125	4453	4780	5108	327
26	5435	5763	6090	6418	6745	7073	7400	7727	8055	8382	
27	8709	9036	9364	9691	0018	0345	0672	1000	1327	1654	
Differences.											
Proportional Parts.											
335	34	67	101	134	168	201	235	268	302		
334	33	67	100	134	167	200	234	267	301		
333	33	67	100	133	167	200	233	266	300		
332	33	66	100	133	166	199	232	266	299		
331	33	66	99	132	166	199	232	265	298		
330	33	66	99	132	165	198	231	264	297		
329	33	66	99	132	165	197	230	263	296		
328	33	66	98	131	164	197	230	262	295		
327	33	65	98	131	164	196	229	262	294		

No.	0	1	2	3	4	5	6	7	8	9	D.
1328	1231981	2308	2635	2962	3289	3616	3942	4269	4596	4923	
29	5250	5577	5903	6230	6557	6883	7210	7537	7863	8190	
1330	8516	8843	9169	9496	9822	0149	0475	0802	1128	1454	326
31	1241781	2107	2433	2759	3086	3412	3738	4064	4390	4716	
32	5042	5368	5694	6020	6346	6672	6998	7324	7650	7976	
33	8301	8627	8953	9279	9605	9930	0256	0582	0907	1233	
34	1251558	1884	2209	2535	2860	3186	3511	3837	4162	4487	325
35	4813	5138	5463	5788	6114	6439	6764	7089	7414	7739	
36	8065	8390	8715	9040	9365	9690	0015	0339	0664	0989	
37	1261314	1639	1964	2288	2613	2938	3263	3587	3912	4237	
38	4561	4886	5210	5535	5859	6184	6508	6833	7157	7481	324
39	7806	8130	8454	8779	9103	9427	9751	0076	0400	0724	
1340	1271048	1372	1696	2020	2344	2668	2992	3316	3640	3964	
41	4288	4612	4935	5259	5583	5907	6230	6554	6878	7202	
42	7525	7849	8172	8496	8819	9143	9466	9790	0113	0437	
43	1280760	1083	1407	1730	2053	2377	2700	3023	3346	3670	323
44	3993	4316	4639	4962	5285	5608	5931	6254	6577	6900	
45	7223	7546	7869	8191	8514	8837	9160	9483	9805	0128	
46	1290451	0773	1096	1418	1741	2064	2386	2709	3031	3354	
47	3676	3998	4321	4643	4965	5288	5610	5932	6255	6577	322
48	6899	7221	7543	7865	8187	8510	8832	9154	9476	9798	
49	1300119	0441	0763	1085	1407	1729	2051	2372	2694	3016	
1350	3338	3659	3981	4303	4624	4946	5267	5589	5911	6232	
51	6553	6875	7196	7518	7839	8161	8482	8803	9124	9446	321
52	9767	0088	0409	0730	1052	1373	1694	2015	2336	2657	
53	1312978	3299	3620	3941	4262	4583	4903	5224	5545	5866	
54	6187	6507	6828	7149	7469	7790	8111	8431	8752	9072	
55	9393	9713	0034	0354	0675	0995	1316	1636	1956	2277	320
56	1322597	2917	3237	3558	3878	4198	4518	4838	5158	5478	
57	5798	6119	6439	6758	7078	7398	7718	8038	8358	8678	
58	8998	9317	9637	9957	0277	0596	0916	1236	1555	1875	
59	1332195	2514	2834	3153	3473	3792	4112	4431	4750	5070	319
1360	5389	5708	6028	6347	6666	6985	7305	7624	7943	8262	
61	8581	8900	9219	9538	9857	0176	0495	0814	1133	1452	
62	1341771	2090	2409	2728	3046	3365	3684	4003	4321	4640	
63	4959	5277	5596	5914	6233	6551	6870	7188	7507	7825	318
64	8144	8462	8780	9099	9417	9735	0054	0372	0690	1008	

No.	0	1	2	3	4	5	6	7	8	9	D.
1366	1354507	4825	5143	5461	5779	6096	6414	6732	7050	7367	
67	7685	8003	8320	8638	8956	9273	9591	9908	0226	0543	317
68	1360861	1178	1496	1813	2131	2448	2765	3083	3400	3717	
69	4034	4352	4669	4986	5303	5620	5937	6255	6572	6889	
1370	7206	7523	7840	8157	8473	8790	9107	9424	9741	0058	
71	1370375	0691	1008	1325	1641	1958	2275	2591	2908	3225	316
72	3541	3858	4174	4491	4807	5124	5440	5756	6073	6389	
73	6705	7022	7338	7654	7970	8287	8603	8919	9235	9551	
74	9867	0183	0499	0815	1131	1447	1763	2079	2395	2711	
75	1383027	3343	3659	3974	4290	4606	4922	5237	5553	5869	
76	6184	6500	6816	7131	7447	7762	8078	8393	8709	9024	315
77	9339	9655	9970	0285	0601	0916	1231	1547	1862	2177	
78	1392492	2807	3122	3438	3753	4068	4383	4698	5013	5328	
79	5643	5958	6272	6587	6902	7217	7532	7847	8161	8476	
1380	8791	9106	9420	9735	0050	0364	0679	0993	1308	1622	314
81	1401937	2251	2566	2880	3195	3509	3823	4138	4452	4766	
82	5080	5395	5709	6023	6337	6651	6966	7280	7594	7908	
83	8222	8536	8850	9164	9478	9792	0106	0419	0733	1047	
84	1411361	1675	1988	2302	2616	2930	3243	3557	3871	4184	
85	4498	4811	5125	5438	5752	6065	6379	6692	7006	7319	313
86	7632	7946	8259	8572	8885	9199	9512	9825	0138	0451	
87	1420765	1078	1391	1704	2017	2330	2643	2956	3269	3582	
88	3895	4208	4520	4833	5146	5459	5772	6084	6397	6710	
89	7022	7335	7648	7960	8273	8586	8898	9211	9523	9836	312
1390	1430148	0460	0773	1085	1398	1710	2022	2335	2647	2959	
91	3271	3584	3896	4208	4520	4832	5144	5456	5768	6080	
92	6392	6704	7016	7328	7640	7952	8264	8576	8888	9199	
93	9511	9823	0135	0446	0758	1070	1381	1693	2005	2316	311
94	1442628	2939	3251	3562	3874	4185	4497	4808	5119	5431	
95	5742	6053	6365	6676	6987	7298	7610	7921	8232	8543	
96	8854	9165	9476	9787	0098	0409	0720	1031	1342	1653	
97	1451964	2275	2586	2897	3207	3518	3829	4140	4450	4761	310
98	5072	5382	5693	6004	6314	6625	6935	7246	7556	7867	
99	8177	8488	8798	9108	9419	9729	0039	0350	0660	0970	
1400	1461280	1591	1901	2211	2521	2831	3141	3451	3761	4071	
01	4381	4691	5001	5311	5621	5931	6241	6551	6861	7170	
02	7480	7790	8100	8409	8719	9029	9338	9648	9958	0267	309
03	1470577	0886	1196	1505	1815	2124	2434	2743	3052	3362	
Differences.											
Proportional Parts.		317	32	63	95	127	159	190	222	254	285
		316	32	63	95	126	158	190	221	253	284
		315	32	63	95	126	158	189	221	252	284
		314	31	63	94	126	157	188	220	251	283
		313	31	63	94	125	157	188	219	250	282
		312	31	62	94	125	156	187	218	250	281
		311	31	62	93	124	156	187	218	249	280
		310	31	62	93	124	155	186	217	248	279
		309	31	62	93	124	155	185	216	247	278

No.	0	1	2	3	4	5	6	7	8	9	D.
1404	1473671	3980	4290	4599	4908	5217	5527	5836	6145	6454	
05	6763	7072	7381	7690	7999	8308	8617	8926	9235	9544	
06	9853	0162	0471	0780	1089	1397	1706	2015	2324	2632	
07	1482941	3250	3558	3867	4175	4484	4793	5101	5410	5718	308
08	6027	6335	6643	6952	7260	7569	7877	8185	8493	8802	
09	9110	9418	9726	0035	0343	0651	0959	1267	1575	1883	
1410	1492191	2499	2807	3115	3423	3731	4039	4347	4655	4962	
11	5270	5578	5886	6193	6501	6809	7116	7424	7732	8039	307
12	8347	8655	8962	9270	9577	9885	0192	0499	0807	1114	
13	1501422	1729	2036	2344	2651	2958	3265	3573	3880	4187	
14	4494	4801	5108	5415	5722	6030	6337	6644	6951	7257	
15	7564	7871	8178	8485	8792	9099	9406	9712	0019	0326	
16	1510633	0939	1246	1553	1859	2166	2472	2779	3085	3392	306
17	3699	4005	4311	4618	4924	5231	5537	5843	6150	6456	
18	6762	7069	7375	7681	7987	8293	8600	8906	9212	9518	
19	9824	0130	0436	0742	1048	1354	1660	1966	2272	2578	
1420	1522883	3189	3495	3801	4107	4412	4718	5024	5329	5635	
21	5941	6246	6552	6858	7163	7469	7774	8080	8385	8691	305
22	8996	9301	9607	9912	0217	0523	0828	1133	1439	1744	
23	1532049	2354	2659	2964	3270	3575	3880	4185	4490	4795	
24	5100	5405	5710	6015	6320	6625	6929	7234	7539	7844	
25	8149	8453	8758	9063	9368	9672	9977	0281	0586	0891	
26	1541195	1500	1804	2109	2413	2718	3022	3327	3631	3935	304
27	4240	4544	4848	5153	5457	5761	6065	6370	6674	6978	
28	7282	7586	7890	8194	8498	8802	9106	9410	9714	0018	
29	1550322	0626	0930	1234	1538	1842	2145	2449	2753	3057	
1430	3360	3664	3968	4271	4575	4879	5182	5486	5789	6093	
31	6396	6700	7003	7307	7610	7914	8217	8520	8824	9127	303
32	9430	9733	0037	0340	0643	0946	1249	1553	1856	2159	
33	1562462	2765	3068	3371	3674	3977	4280	4583	4886	5189	
34	5492	5794	6097	6400	6703	7006	7308	7611	7914	8216	
35	8519	8822	9124	9427	9729	0032	0334	0637	0939	1242	302
36	1571544	1847	2149	2452	2754	3056	3359	3661	3963	4265	
37	4568	4870	5172	5474	5776	6079	6381	6683	6985	7287	
38	7589	7891	8193	8495	8797	9099	9401	9702	0004	0806	
39	1580608	0910	1212	1513	1815	2117	2418	2720	3022	3323	301
1440	3625	3927	4228	4530	4831	5133	5434	5736	6037	6338	
41	6640	6941	7243	7544	7845	8146	8448	8749	9050	9351	
42	9653	9954	0255	0556	0857	1158	1459	1760	2061	2362	
Differences.	308	31	62	92	123	154	185	216	246	277	
	307	31	61	92	123	154	184	215	246	276	
	306	31	61	92	122	153	184	214	245	275	
	305	31	61	92	122	153	183	214	244	275	
	304	30	61	91	122	152	182	213	243	274	
	303	30	61	91	121	152	182	212	242	273	
	302	30	60	91	121	151	181	211	242	272	
	301	30	60	90	120	151	181	211	241	271	

No.	0	1	2	3	4	5	6	7	8	9	D.
1443	1592663	2964	3265	3566	3867	4168	4469	4770	5070	5371	
44	5672	5973	6273	6574	6875	7175	7476	7777	8077	8378	300
45	8678	8979	9280	9580	9881	0181	0481	0782	1082	1383	
46	1601683	1983	2284	2584	2884	3184	3485	3785	4085	4385	
47	4685	4985	5286	5586	5886	6186	6486	6786	7086	7386	
48	7686	7986	8285	8585	8885	9185	9485	9785	0084	0384	
49	1610684	0984	1283	1583	1883	2182	2482	2781	3081	3380	299
1450	3680	3980	4279	4578	4878	5177	5477	5776	6075	6375	
51	6674	6973	7273	7572	7871	8170	8470	8769	9068	9367	
52	9666	9965	0264	0563	0862	1161	1460	1759	2058	2357	
53	1622665	2955	3254	3553	3852	4151	4449	4748	5047	5345	
54	5644	5943	6241	6540	6839	7137	7436	7734	8033	8331	298
55	8630	8928	9227	9525	9824	0122	0420	0719	1017	1315	
56	1631614	1912	2210	2508	2807	3105	3403	3701	3999	4297	
57	4596	4894	5192	5490	5788	6086	6384	6682	6979	7277	
58	7575	7873	8171	8469	8767	9064	9362	9660	9958	0255	297
59	1640553	0851	1148	1446	1743	2041	2339	2636	2934	3231	
1460	3529	3826	4123	4421	4718	5016	5313	5610	5908	6205	
61	6502	6799	7097	7394	7691	7988	8285	8582	8880	9177	
62	9474	9771	0068	0365	0662	0959	1256	1553	1850	2146	
63	1652443	2740	3037	3334	3631	3927	4224	4521	4817	5114	296
64	5411	5707	6004	6301	6597	6894	7190	7487	7783	8080	
65	8376	8673	8969	9265	9562	9858	0155	0451	0747	1043	
66	1661340	1636	1932	2228	2525	2821	3117	3413	3709	4005	
67	4301	4597	4893	5189	5485	5781	6077	6373	6669	6965	
68	7261	7556	7852	8148	8444	8740	9035	9331	9627	9922	295
69	1670218	0514	0809	1105	1400	1696	1991	2287	2582	2878	
1470	3173	3469	3764	4060	4355	4650	4946	5241	5536	5831	
71	6127	6422	6717	7012	7308	7603	7898	8193	8488	8783	
72	9078	9373	9668	9963	0258	0553	0848	1143	1438	1733	
73	1682027	2322	2617	2912	3207	3501	3796	4091	4386	4680	
74	4975	5269	5564	5859	6153	6448	6742	7037	7331	7626	294
75	7920	8215	8509	8803	9098	9392	9686	9981	0275	0569	
76	1690864	1158	1452	1746	2040	2335	2629	2923	3217	3511	
77	3805	4099	4393	4687	4981	5275	5569	5863	6157	6450	
78	6744	7038	7332	7626	7920	8213	8507	8801	9094	9388	
79	9682	9975	0269	0563	0856	1150	1443	1737	2030	2324	293
1480	1702617	2911	3204	3497	3791	4084	4377	4671	4964	5257	
81	5551	5844	6137	6430	6723	7017	7310	7603	7896	8189	
Differences.	300	Proportional Parts.	30	60	90	120	150	180	210	240	270
	299		30	60	90	120	150	179	209	239	269
	298		30	60	89	119	149	179	209	238	268
	297		30	59	89	119	149	178	208	238	267
	296		30	59	89	118	148	178	207	237	266
	295		30	59	89	118	148	177	207	236	266
	294		29	59	88	118	147	176	206	235	265
293	29	59	88	117	147	176	205	234	264		

No.	0	1	2	3	4	5	6	7	8	9	D.
482	1708482	8775	9068	9361	9654	9947	0240	0533	0826	1119	
83	1711412	1704	1997	2290	2583	2876	3168	3461	3754	4046	
84	4339	4632	4924	5217	5509	5802	6095	6387	6680	6972	292
85	7265	7557	7849	8142	8434	8727	9019	9311	9604	9896	
86	1720188	0480	0773	1065	1357	1649	1941	2233	2526	2818	
87	3110	3402	3694	3986	4278	4570	4862	5154	5446	5737	
88	6029	6321	6613	6905	7197	7488	7780	8072	8364	8655	
89	8947	9239	9530	9822	0113	0405	0697	0988	1280	1571	291
490	1731863	2154	2446	2737	3028	3320	3611	3903	4194	4485	
91	4776	5068	5359	5650	5941	6233	6524	6815	7106	7397	
92	7688	7979	8270	8561	8852	9143	9434	9725	0016	0307	
93	1740598	0889	1180	1471	1761	2052	2343	2634	2925	3215	
94	3506	3797	4087	4378	4669	4959	5250	5540	5831	6121	290
95	6412	6702	6993	7283	7574	7864	8155	8445	8735	9026	
96	9316	9606	9897	0187	0477	0767	1057	1348	1638	1928	
97	1752218	2508	2798	3088	3378	3668	3958	4248	4538	4828	
98	5118	5408	5698	5988	6278	6567	6857	7147	7437	7727	
99	8016	8306	8596	8885	9175	9465	9754	0044	0333	0623	289
1500	1760913	1202	1492	1781	2071	2360	2649	2939	3228	3518	
01	3807	4096	4386	4675	4964	5253	5543	5832	6121	6410	
02	6699	6988	7278	7567	7856	8145	8434	8723	9012	9301	
03	9590	9879	0168	0457	0745	1034	1323	1612	1901	2190	
04	1772478	2767	3056	3345	3633	3922	4211	4499	4788	5076	288
05	5365	5654	5942	6231	6519	6808	7096	7385	7673	7961	
06	8250	8538	8826	9115	9403	9691	9980	0268	0556	0844	
07	1781133	1421	1709	1997	2285	2573	2861	3149	3437	3725	
08	4013	4301	4589	4877	5165	5453	5741	6029	6317	6605	
09	6892	7180	7468	7756	8043	8331	8619	8907	9194	9482	287
1510	9769	0057	0345	0632	0920	1207	1495	1782	2070	2357	
11	1792645	2932	3219	3507	3794	4082	4369	4656	4943	5231	
12	5518	5805	6092	6380	6667	6954	7241	7528	7815	8102	
13	8389	8676	8963	9250	9537	9824	0111	0398	0685	0972	
14	1801259	1546	1832	2119	2406	2693	2980	3266	3553	3840	286
15	4126	4413	4700	4986	5273	5559	5846	6133	6419	6706	
16	6992	7278	7565	7851	8138	8424	8711	8997	9283	9570	
17	9856	0142	0428	0715	1001	1287	1573	1859	2145	2432	
18	1812718	3004	3290	3576	3862	4148	4434	4720	5006	5292	
19	5578	5864	6150	6435	6721	7007	7293	7579	7864	8150	285
1520	8436	8722	9007	9293	9579	9864	0150	0435	0721	1007	
Differences.	292	Proportional Parts.	29	58	88	117	146	175	204	234	263
	291		29	58	87	116	146	175	204	233	262
	290		29	58	87	116	145	174	203	232	261
	289		29	58	87	116	145	173	202	231	260
	288		29	58	86	115	144	173	202	230	259
	287		29	57	86	115	144	172	201	230	258
	286		29	57	86	114	143	172	200	229	257
	285		29	57	86	114	143	171	200	228	257

No.	0	1	2	3	4	5	6	7	8	9	D.
1521	1821292	1578	1863	2149	2434	2720	3005	3290	3576	3861	
22	4147	4432	4717	5002	5288	5573	5858	6143	6429	6714	
23	6999	7284	7569	7854	8140	8425	8710	8995	9280	9565	
24	9850	0135	0420	0704	0989	1274	1559	1844	2129	2414	
25	1832698	2983	3268	3553	3837	4122	4407	4691	4976	5261	284
26	5545	5830	6114	6399	6684	6968	7253	7537	7822	8106	
27	8390	8675	8959	9244	9528	9812	0096	0381	0665	0949	
28	1841234	1518	1802	2086	2370	2654	2939	3223	3507	3791	
29	4075	4359	4643	4927	5211	5495	5779	6063	6347	6630	
1530	6914	7198	7482	7766	8050	8334	8617	8901	9185	9468	
31	9752	0036	0319	0603	0886	1170	1454	1737	2021	2304	283
32	1852588	2871	3155	3438	3721	4005	4288	4572	4855	5138	
33	5422	5705	5988	6271	6555	6838	7121	7404	7687	7970	
34	8254	8537	8820	9103	9386	9669	9952	0235	0518	0801	
35	1861084	1367	1650	1932	2215	2498	2781	3064	3347	3629	
36	3912	4195	4478	4760	5043	5326	5608	5891	6174	6456	282
37	6739	7021	7304	7586	7869	8151	8434	8716	8999	9281	
38	9563	9846	0128	0410	0693	0975	1257	1540	1822	2104	
39	1872386	2668	2951	3233	3515	3797	4079	4361	4643	4925	
1540	5207	5489	5771	6053	6335	6617	6899	7181	7463	7745	
41	8026	8308	8590	8872	9154	9435	9717	9999	0280	0562	
42	1880844	1125	1407	1689	1970	2252	2533	2815	3096	3378	281
43	3659	3941	4222	4504	4785	5066	5348	5629	5910	6192	
44	6473	6754	7035	7317	7598	7879	8160	8441	8723	9004	
45	9285	9566	9847	0128	0409	0690	0971	1252	1533	1814	
46	1892095	2376	2657	2938	3218	3499	3780	4061	4342	4622	
47	4903	5184	5465	5745	6026	6307	6587	6868	7148	7429	280
48	7710	7990	8271	8551	8832	9112	9393	9673	9953	0234	
49	1900514	0795	1075	1355	1636	1916	2196	2476	2757	3037	
1550	3317	3597	3877	4157	4438	4718	4998	5278	5558	5838	
51	6118	6398	6678	6958	7238	7518	7798	8078	8357	8637	
52	8917	9197	9477	9757	0036	0316	0596	0876	1155	1435	
53	1911715	1994	2274	2553	2833	3113	3392	3672	3951	4231	279
54	4510	4790	5069	5348	5628	5907	6187	6466	6745	7025	
55	7304	7583	7862	8142	8421	8700	8979	9259	9538	9817	
56	1920096	0375	0654	0933	1212	1491	1770	2049	2328	2607	
57	2886	3165	3444	3723	4002	4281	4559	4838	5117	5396	
58	5675	5953	6232	6511	6789	7068	7347	7625	7904	8183	
59	8461	8740	9018	9297	9575	9854	0132	0411	0689	0968	278
1560	1931246	1524	1803	2081	2359	2638	2916	3194	3473	3751	
Differences.	284	Proportional Parts.	28	57	85	114	142	170	199	227	256
	283		28	57	85	113	142	170	198	226	255
	282		28	56	85	113	141	169	197	226	254
	281		28	56	84	112	141	169	197	225	253
	280		28	56	84	112	140	168	196	224	252
	279		28	56	84	112	140	167	195	223	251
	278		28	56	83	111	139	167	195	222	250

No.	0	1	2	3	4	5	6	7	8	9	D.
1561	1984029	4307	4585	4864	5142	5420	5698	5976	6254	6532	
62	6810	7088	7366	7644	7922	8200	8478	8756	9034	9312	
63	9590	9868	0145	0423	0701	0979	1257	1534	1812	2090	
64	1942367	2645	2923	3200	3478	3756	4033	4311	4588	4866	277
65	5143	5421	5698	5976	6253	6531	6808	7086	7363	7640	
66	7918	8195	8472	8749	9027	9304	9581	9858	0136	0413	
67	1950690	0967	1244	1521	1798	2075	2353	2630	2907	3184	
68	3461	3738	4014	4291	4568	4845	5122	5399	5676	5953	
69	6229	6506	6783	7060	7336	7613	7890	8167	8443	8720	276
1570	8997	9273	9550	9826	0103	0379	0656	0932	1209	1485	
71	1961762	2038	2315	2591	2867	3144	3420	3697	3973	4249	
72	4525	4802	5078	5354	5630	5907	6183	6459	6735	7011	
73	7287	7563	7839	8115	8391	8667	8943	9219	9495	9771	
74	1970047	0323	0599	0875	1151	1427	1702	1978	2254	2530	
75	2806	3081	3357	3633	3908	4184	4460	4735	5011	5287	275
76	5562	5838	6113	6389	6664	6940	7215	7491	7766	8042	
77	8317	8592	8868	9143	9418	9694	9969	0244	0520	0795	
78	1981070	1345	1620	1896	2171	2446	2721	2996	3271	3546	
79	3821	4096	4371	4646	4921	5196	5471	5746	6021	6296	
1580	6571	6846	7121	7395	7670	7945	8220	8495	8769	9044	
81	9319	9593	9868	0143	0417	0692	0967	1241	1516	1790	274
82	1992065	2339	2614	2888	3163	3437	3712	3986	4260	4535	
83	4809	5083	5358	5632	5906	6181	6455	6729	7003	7278	
84	7552	7826	8100	8374	8648	8922	9197	9471	9745	0019	
85	2000293	0567	0841	1115	1389	1662	1936	2210	2484	2758	
86	3032	3306	3579	3853	4127	4401	4674	4948	5222	5496	
87	5769	6043	6317	6590	6864	7137	7411	7684	7958	8231	273
88	8505	8778	9052	9325	9599	9872	0146	0419	0692	0966	
89	2011239	1512	1786	2059	2332	2605	2879	3152	3425	3698	
1590	3971	4244	4517	4791	5064	5337	5610	5883	6156	6429	
91	6702	6975	7248	7521	7794	8066	8339	8612	8885	9158	
92	9431	9703	9976	0249	0522	0794	1067	1340	1612	1885	
93	2022158	2430	2703	2976	3248	3521	3793	4066	4338	4611	272
94	4883	5156	5428	5700	5973	6245	6518	6790	7062	7335	
95	7607	7879	8151	8424	8696	8968	9240	9512	9785	0057	
96	2030329	0601	0873	1145	1417	1689	1961	2233	2505	2777	
97	3049	3321	3593	3865	4137	4409	4681	4952	5224	5496	
98	5768	6040	6311	6583	6855	7126	7398	7670	7941	8213	271
99	8485	8756	9028	9299	9571	9842	0114	0385	0657	0928	
Differences.											
Differences.	277	Proportional Parts.	28	55	83	111	139	166	194	222	249
	276		28	55	83	110	138	166	193	221	248
	275		28	55	83	110	138	165	193	220	248
	274		27	55	82	110	137	164	192	219	247
	273		27	55	82	109	137	164	191	218	246
	272		27	54	82	109	136	163	190	218	245
	271		27	54	81	108	136	163	190	217	244
	270		27	54	81	108	135	162	189	216	243

No.	0	1	2	3	4	5	6	7	8	9	D.
1600	2041200	1471	1743	2014	2285	2557	2828	3099	3371	3642	
01	3913	4185	4456	4727	4998	5269	5541	5812	6083	6354	
02	6625	6896	7167	7438	7709	7980	8251	8522	8793	9064	
03	9335	9606	9877	0148	0419	0690	0960	1231	1502	1773	
04	2052044	2314	2585	2856	3127	3397	3668	3939	4209	4480	270
05	4750	5021	5292	5562	5833	6103	6374	6644	6915	7185	
06	7455	7726	7996	8267	8537	8807	9078	9348	9618	9889	
07	2060159	0429	0699	0969	1240	1510	1780	2050	2320	2590	
08	2860	3131	3401	3671	3941	4211	4481	4751	5021	5291	
09	5560	5830	6100	6370	6640	6910	7180	7449	7719	7989	
1610	8259	8529	8798	9068	9338	9607	9877	0147	0416	0686	
11	2070955	1225	1495	1764	2034	2303	2573	2842	3112	3381	269
12	3650	3920	4189	4459	4728	4997	5267	5536	5805	6074	
13	6344	6613	6882	7151	7421	7690	7959	8228	8497	8766	
14	9035	9304	9573	9842	0111	0380	0649	0918	1187	1456	
15	2081725	1994	2263	2532	2801	3070	3338	3607	3876	4145	
16	4414	4682	4951	5220	5488	5757	6026	6294	6563	6832	
17	7100	7369	7637	7906	8174	8443	8711	8980	9248	9517	268
18	9785	0054	0322	0590	0859	1127	1395	1664	1932	2200	
19	2092468	2737	3005	3273	3541	3810	4078	4346	4614	4882	
1620	5150	5418	5686	5954	6222	6490	6758	7026	7294	7562	
21	7830	8098	8366	8634	8902	9170	9437	9705	9973	0241	
22	2100508	0776	1044	1312	1579	1847	2115	2382	2650	2918	
23	3185	3453	3720	3988	4255	4523	4790	5058	5325	5593	267
24	5860	6128	6395	6662	6930	7197	7464	7732	7999	8266	
25	8534	8801	9068	9335	9603	9870	0137	0404	0671	0938	
26	2111205	1472	1740	2007	2274	2541	2808	3075	3342	3609	
27	3876	4142	4409	4676	4943	5210	5477	5744	6010	6277	
28	6544	6811	7078	7344	7611	7878	8144	8411	8678	8944	266
29	9211	9477	9744	0011	0277	0544	0810	1077	1343	1610	
1630	2121876	2142	2409	2675	2942	3208	3474	3741	4007	4273	
31	4540	4806	5072	5338	5605	5871	6137	6403	6669	6935	
32	7202	7468	7734	8000	8266	8532	8798	9064	9330	9596	
33	9862	0128	0394	0660	0926	1191	1457	1723	1989	2255	
34	2132521	2786	3052	3318	3584	3849	4115	4381	4646	4912	265
35	5178	5443	5709	5974	6240	6505	6771	7037	7302	7568	
36	7833	8098	8364	8629	8895	9160	9425	9691	9956	0221	
37	2140487	0752	1017	1283	1548	1813	2078	2343	2609	2874	
38	3139	3404	3669	3934	4199	4464	4730	4995	5260	5525	
39	5790	6055	6319	6584	6849	7114	7379	7644	7909	8174	
1640	8438	8703	8968	9233	9498	9762	0027	0292	0556	0821	264
Differences.											
Pro. Parts.											
269	27	54	81	108	135	161	188	215	242		
268	27	54	80	107	134	161	188	214	241		
267	27	53	80	107	134	160	187	214	240		
266	27	53	80	106	133	160	186	213	239		
265	27	53	80	106	133	159	186	212	239		
264	26	53	79	106	132	158	185	211	238		

No.	0	1	2	3	4	5	6	7	8	9	D.
1641	2151086	1350	1615	1880	2144	2409	2673	2938	3203	3467	
42	3732	3996	4260	4525	4789	5054	5318	5583	5847	6111	
43	6376	6640	6904	7169	7433	7697	7961	8226	8490	8754	
44	9018	9282	9546	9811	0075	0339	0603	0867	1131	1395	
45	2161659	1923	2187	2451	2715	2979	3243	3507	3771	4034	
46	4298	4562	4826	5090	5354	5617	5881	6145	6409	6672	263
47	6936	7200	7463	7727	7991	8254	8518	8781	9045	9309	
48	9572	9836	0099	0363	0626	0890	1153	1416	1680	1943	
49	2172207	2470	2733	2997	3260	3523	3786	4050	4313	4576	
1650	4839	5103	5366	5629	5892	6155	6418	6682	6945	7208	
51	7471	7734	7997	8260	8523	8786	9049	9312	9575	9838	
52	2180100	0363	0626	0889	1152	1415	1677	1940	2203	2466	262
53	2729	2991	3254	3517	3779	4042	4305	4567	4830	5092	
54	5355	5618	5880	6143	6405	6668	6930	7193	7455	7718	
55	7980	8242	8505	8767	9030	9292	9554	9816	0079	0341	
56	2190603	0866	1128	1390	1652	1914	2177	2439	2701	2963	
57	3225	3487	3749	4011	4273	4535	4797	5059	5321	5583	
58	5845	6107	6369	6631	6893	7155	7417	7678	7940	8202	
59	8464	8726	8987	9249	9511	9773	0034	0296	0558	0819	261
1660	2201081	1342	1604	1866	2127	2389	2650	2912	3173	3435	
61	3696	3958	4219	4481	4742	5003	5265	5526	5788	6049	
62	6310	6571	6833	7094	7355	7617	7878	8139	8400	8661	
63	8922	9184	9445	9706	9967	0228	0489	0750	1011	1272	
64	2211533	1794	2055	2316	2577	2838	3099	3360	3621	3882	
65	4142	4403	4664	4925	5186	5446	5707	5968	6229	6489	
66	6750	7011	7271	7532	7793	8053	8314	8574	8835	9095	260
67	9356	9617	9877	0138	0398	0658	0919	1179	1440	1700	
68	2221960	2221	2481	2741	3002	3262	3522	3783	4043	4303	
69	4563	4824	5084	5344	5604	5864	6124	6384	6645	6905	
1670	7165	7425	7685	7945	8205	8465	8725	8985	9245	9505	
71	9764	0024	0284	0544	0804	1064	1324	1583	1843	2103	
72	2232363	2622	2882	3142	3402	3661	3921	4181	4440	4700	259
73	4959	5219	5479	5738	5998	6257	6517	6776	7036	7295	
74	7555	7814	8073	8333	8592	8852	9111	9370	9630	9889	
75	2240148	0407	0667	0926	1185	1444	1704	1963	2222	2481	
76	2740	2999	3258	3517	3777	4036	4295	4554	4813	5072	
77	5331	5590	5849	6107	6366	6625	6884	7143	7402	7661	
78	7920	8178	8437	8696	8955	9213	9472	9731	9990	0248	
79	2250507	0766	1024	1283	1541	1800	2059	2317	2576	2834	258
1680	3093	3351	3610	3868	4127	4385	4644	4902	5160	5419	
81	5677	5935	6194	6452	6710	6969	7227	7485	7743	8002	
Differences.	263	26	53	79	105	132	158	184	210	237	
	262	26	52	79	105	131	157	183	210	236	
	261	26	52	78	104	131	157	183	209	235	
	260	26	52	78	104	130	156	182	208	234	
	259	26	52	78	104	130	155	181	207	233	
	258	26	52	77	103	129	155	181	206	232	

No.	0	1	2	3	4	5	6	7	8	9	D.
1682	2258260	8518	8776	9034	9293	9551	9809	0067	0325	0583	
83	2260841	1099	1357	1615	1873	2131	2389	2647	2905	3163	
84	3421	3679	3937	4194	4452	4710	4968	5226	5484	5741	
85	5999	6257	6515	6772	7030	7288	7545	7803	8060	8318	
86	8576	8833	9091	9348	9606	9863	0121	0378	0636	0893	257
87	2271151	1408	1666	1923	2180	2438	2695	2953	3210	3467	
88	3724	3982	4239	4496	4753	5011	5268	5525	5782	6039	
89	6296	6554	6811	7068	7325	7582	7839	8096	8353	8610	
1690	8867	9124	9381	9638	9895	0152	0409	0666	0922	1179	
91	2281436	1693	1950	2206	2463	2720	2977	3233	3490	3747	
92	4004	4260	4517	4774	5030	5287	5543	5800	6057	6313	256
93	6570	6826	7083	7339	7596	7852	8108	8365	8621	8878	
94	9134	9390	9647	9903	0159	0416	0672	0928	1185	1441	
95	2291697	1953	2209	2466	2722	2978	3234	3490	3746	4002	
96	4258	4515	4771	5027	5283	5539	5795	6051	6307	6562	
97	6818	7074	7330	7586	7842	8098	8354	8609	8865	9121	
98	9377	9633	9888	0144	0400	0656	0911	1167	1423	1678	255
99	2301934	2189	2445	2701	2956	3212	3467	3723	3978	4234	
1700	4489	4745	5000	5256	5511	5766	6022	6277	6532	6788	
01	7043	7298	7554	7809	8064	8320	8575	8830	9085	9340	
02	9596	9851	0106	0361	0616	0871	1126	1381	1636	1891	
03	2312146	2401	2656	2911	3166	3421	3676	3931	4186	4441	
04	4696	4951	5206	5460	5715	5970	6225	6480	6734	6989	
05	7244	7499	7753	8008	8263	8517	8772	9026	9281	9536	254
06	9790	0045	0299	0554	0808	1063	1317	1572	1826	2081	
07	2322335	2590	2844	3098	3353	3607	3861	4116	4370	4624	
08	4879	5133	5387	5641	5896	6150	6404	6658	6912	7166	
09	7421	7675	7929	8183	8437	8691	8945	9199	9453	9707	
1710	9961	0215	0469	0723	0977	1231	1485	1739	1992	2246	
11	2332500	2754	3008	3262	3515	3769	4023	4277	4530	4784	
12	5038	5291	5545	5799	6052	6306	6559	6813	7067	7320	253
13	7574	7827	8081	8334	8588	8841	9095	9348	9601	9855	
14	2340108	0362	0615	0868	1122	1375	1628	1881	2135	2388	
15	2641	2894	3148	3401	3654	3907	4160	4414	4667	4920	
16	5173	5426	5679	5932	6185	6438	6691	6944	7197	7450	
17	7703	7956	8209	8462	8715	8967	9220	9473	9726	9979	
18	2350232	0484	0737	0990	1243	1495	1748	2001	2253	2506	
19	2759	3011	3264	3517	3769	4022	4274	4527	4779	5032	252
1720	5284	5537	5789	6042	6294	6547	6799	7052	7304	7556	
21	7809	8061	8313	8566	8818	9070	9323	9575	9827	0079	
22	2360331	0584	0836	1088	1340	1592	1844	2097	2349	2601	
Differences.	257	26	51	77	103	129	154	180	206	231	
	256	26	51	77	102	128	154	179	205	230	
	255	26	51	77	102	128	153	179	204	230	
	254	25	51	76	102	127	152	178	203	229	
	253	25	51	76	101	127	152	177	202	228	
	252	25	50	76	101	126	151	176	202	227	

No.	0	1	2	3	4	5	6	7	8	9	D.
1723	2362853	3105	3357	3609	3861	4113	4365	4617	4869	5121	
24	5373	5625	5876	6128	6380	6632	6884	7136	7387	7639	
25	7891	8143	8394	8646	8898	9150	9401	9653	9905	0156	251
26	2370408	0660	0911	1163	1414	1666	1917	2169	2420	2672	
27	2923	3175	3426	3678	3929	4181	4432	4683	4935	5186	
28	5437	5689	5940	6191	6443	6694	6945	7196	7448	7699	
29	7950	8201	8452	8703	8955	9206	9457	9708	9959	0210	
1730	2380461	0712	0963	1214	1465	1716	1967	2218	2469	2720	
31	2971	3222	3472	3723	3974	4225	4476	4727	4977	5228	
32	5479	5730	5980	6231	6482	6732	6983	7234	7484	7735	250
33	7986	8236	8487	8737	8988	9238	9489	9739	9990	0240	
34	2390491	0741	0992	1242	1493	1743	1993	2244	2494	2744	
35	2995	3245	3495	3746	3996	4246	4496	4747	4997	5247	
36	5497	5747	5998	6248	6498	6748	6998	7248	7498	7748	
37	7998	8248	8498	8748	8998	9248	9498	9748	9998	0248	
38	2400498	0748	0997	1247	1497	1747	1997	2247	2496	2746	
39	2996	3246	3495	3745	3995	4244	4494	4744	4993	5243	249
1740	5492	5742	5992	6241	6491	6740	6990	7239	7489	7738	
41	7988	8237	8487	8736	8985	9235	9484	9734	9983	0232	
42	2410482	0731	0980	1229	1479	1728	1977	2226	2476	2725	
43	2974	3223	3472	3721	3970	4220	4469	4718	4967	5216	
44	5465	5714	5963	6212	6461	6710	6959	7208	7457	7705	
45	7954	8203	8452	8701	8950	9199	9447	9696	9945	0194	
46	2420442	0691	0940	1189	1437	1686	1935	2183	2432	2680	
47	2929	3178	3426	3675	3923	4172	4420	4669	4917	5166	248
48	5414	5663	5911	6160	6408	6656	6905	7153	7401	7650	
49	7898	8146	8395	8643	8891	9139	9388	9636	9884	0132	
1750	2430380	0629	0877	1125	1373	1621	1869	2117	2365	2613	
51	2861	3109	3357	3605	3853	4101	4349	4597	4845	5093	
52	5341	5589	5837	6085	6332	6580	6828	7076	7324	7571	
53	7819	8067	8315	8562	8810	9058	9305	9553	9801	0048	
54	2440296	0543	0791	1039	1286	1534	1781	2029	2276	2524	247
55	2771	3019	3266	3514	3761	4008	4256	4503	4750	4998	
56	5245	5492	5740	5987	6234	6482	6729	6976	7223	7470	
57	7718	7965	8212	8459	8706	8953	9200	9448	9695	9942	
58	2450189	0436	0683	0930	1177	1424	1671	1918	2165	2411	
59	2658	2905	3152	3399	3646	3893	4140	4386	4633	4880	
1760	5127	5373	5620	5867	6114	6360	6607	6854	7100	7347	
61	7594	7840	8087	8333	8580	8826	9073	9320	9566	9813	246
62	2460059	0306	0552	0798	1045	1291	1538	1784	2030	2277	
63	2523	2769	3016	3262	3508	3755	4001	4247	4493	4740	
Differences.	251	25	50	75	100	126	151	176	201	226	
	250	25	50	75	100	125	150	175	200	225	
	249	25	50	75	100	125	149	174	199	224	
	248	25	50	74	99	124	149	174	198	223	
	247	25	49	74	99	124	148	173	198	222	
	246	25	49	74	98	123	148	172	197	221	

No.	0	1	2	3	4	5	6	7	8	9	D.
1764	2464986	5232	5478	5724	5970	6217	6463	6709	6955	7201	
65	7447	7693	7939	8185	8431	8677	8923	9169	9415	9661	
66	9907	0153	0399	0645	0891	1136	1382	1628	1874	2120	
67	2472365	2611	2857	3103	3349	3594	3840	4086	4331	4577	
68	4823	5068	5314	5559	5805	6051	6296	6542	6787	7033	245
69	7278	7524	7769	8015	8260	8506	8751	8997	9242	9487	
1770	9733	9978	0223	0469	0714	0959	1205	1450	1695	1940	
71	2482186	2431	2676	2921	3166	3412	3657	3902	4147	4392	
72	4637	4882	5127	5372	5617	5862	6107	6352	6597	6842	
73	7087	7332	7577	7822	8067	8312	8557	8802	9047	9291	
74	9536	9781	0026	0271	0515	0760	1005	1249	1494	1739	
75	2491984	2228	2473	2718	2962	3207	3451	3696	3941	4185	244
76	4430	4674	4919	5163	5408	5652	5897	6141	6385	6630	
77	6874	7119	7363	7607	7852	8096	8340	8585	8829	9073	
78	9318	9562	9806	0050	0294	0539	0783	1027	1271	1515	
79	2501759	2004	2248	2492	2736	2980	3224	3468	3712	3956	
1780	4200	4444	4688	4932	5176	5420	5664	5908	6151	6395	
81	6639	6883	7127	7371	7614	7858	8102	8346	8590	8833	
82	9077	9321	9564	9808	0052	0295	0539	0783	1027	1270	243
83	2511513	1757	2001	2244	2488	2731	2975	3218	3462	3705	
84	3949	4192	4435	4679	4922	5166	5409	5652	5896	6139	
85	6382	6625	6869	7112	7355	7599	7842	8085	8328	8571	
86	8815	9058	9301	9544	9787	0030	0273	0516	0759	1002	
87	2521246	1489	1732	1975	2218	2461	2703	2946	3189	3432	
88	3675	3918	4161	4404	4647	4889	5132	5375	5618	5861	
89	6103	6346	6589	6832	7074	7317	7560	7802	8045	8288	
1790	8530	8773	9016	9258	9501	9743	9986	0228	0471	0713	242
91	2530956	1198	1441	1683	1926	2168	2411	2653	2895	3138	
92	3380	3622	3865	4107	4349	4592	4834	5076	5318	5561	
93	5803	6045	6287	6529	6772	7014	7256	7498	7740	7982	
94	8224	8466	8709	8951	9193	9435	9677	9919	0161	0403	
95	2540645	0886	1128	1370	1612	1854	2096	2338	2580	2822	
96	3063	3305	3547	3789	4030	4272	4514	4756	4997	5239	
97	5481	5722	5964	6206	6447	6689	6931	7172	7414	7655	241
98	7897	8138	8380	8621	8863	9104	9346	9587	9829	0070	
99	2550312	0553	0794	1036	1277	1519	1760	2001	2242	2484	
1800	2725	2966	3208	3449	3690	3931	4172	4414	4655	4896	
01	5137	5378	5619	5860	6102	6343	6584	6825	7066	7307	
02	7548	7789	8030	8271	8512	8753	8994	9235	9475	9716	
03	9957	0198	0439	0680	0921	1161	1402	1643	1884	2125	
04	2562365	2606	2847	3087	3328	3569	3810	4050	4291	4531	
05	4772	5013	5253	5494	5734	5975	6215	6456	6696	6937	
Differences.											
245	Pro. Parts.		25	49	74	98	123	147	172	196	221
244			24	49	73	98	122	146	171	195	220
243			24	49	73	97	122	146	170	194	219
242			24	48	73	97	121	145	169	194	218
241			24	48	72	96	121	145	169	193	217

No.	0	1	2	3	4	5	6	7	8	9	D.
1806	2567177	7418	7658	7899	8139	8380	8620	8860	9101	9341	240
07	9582	9822	0062	0302	0543	0783	1023	1264	1504	1744	
08	2571984	2224	2465	2705	2945	3185	3425	3665	3905	4146	
09	4386	4626	4866	5106	5346	5586	5826	6066	6306	6546	
1810	6786	7026	7266	7506	7745	7985	8225	8465	8705	8945	
11	9185	9424	9664	9904	0144	0383	0623	0863	1103	1342	239
12	2581582	1822	2061	2301	2541	2780	3020	3259	3499	3738	
13	3978	4218	4457	4697	4936	5176	5415	5655	5894	6133	
14	6373	6612	6852	7091	7330	7570	7809	8048	8288	8527	
15	8766	9006	9245	9484	9723	9963	0202	0441	0680	0919	
16	2591158	1398	1637	1876	2115	2354	2593	2832	3071	3310	238
17	3549	3788	4027	4266	4505	4744	4983	5222	5461	5700	
18	5939	6178	6417	6655	6894	7133	7372	7611	7849	8088	
19	8327	8566	8804	9043	9282	9521	9759	9998	0237	0475	
1820	2600714	0952	1191	1430	1668	1907	2145	2384	2622	2861	
21	3099	3338	3576	3815	4053	4292	4530	4769	5007	5245	237
22	5484	5722	5960	6199	6437	6675	6914	7152	7390	7628	
23	7867	8105	8343	8581	8819	9058	9296	9534	9772	0010	
24	2610248	0486	0725	0963	1201	1439	1677	1915	2153	2391	
25	2629	2867	3105	3343	3580	3818	4056	4294	4532	4770	
26	5008	5246	5483	5721	5959	6197	6435	6672	6910	7148	236
27	7385	7623	7861	8099	8336	8574	8811	9049	9287	9524	
28	9762	9999	0237	0475	0712	0950	1187	1425	1662	1900	
29	2622137	2374	2612	2849	3087	3324	3562	3799	4036	4274	
1830	4511	4748	4986	5223	5460	5697	5935	6172	6409	6646	
31	6883	7121	7358	7595	7832	8069	8306	8543	8781	9018	237
32	9255	9492	9729	9966	0203	0440	0677	0914	1151	1388	
33	2631625	1862	2098	2335	2572	2809	3046	3283	3520	3757	
34	3993	4230	4467	4704	4940	5177	5414	5651	5887	6124	
35	6361	6597	6834	7071	7307	7544	7780	8017	8254	8490	
36	8727	8963	9200	9436	9673	9909	0146	0382	0619	0855	236
37	2641092	1928	2164	2401	2637	2873	3110	3346	3582	3819	
38	3455	3691	3928	4164	4400	4636	4873	5109	5345	5581	
39	5817	6053	6290	6526	6762	6998	7234	7470	7706	7942	
1840	8178	8414	8650	8886	9122	9358	9594	9830	0066	0302	
41	2650538	0774	1010	1246	1481	1717	1953	2189	2425	2660	237
42	2896	3132	3368	3604	3839	4075	4311	4546	4782	5018	
43	5253	5489	5725	5960	6196	6431	6667	6903	7138	7374	
44	7609	7845	8080	8316	8551	8787	9022	9257	9493	9728	
45	9964	0199	0434	0670	0905	1140	1376	1611	1846	2082	
46	2662317	2552	2787	3023	3258	3493	3728	3963	4199	4434	236
47	4669	4904	5139	5374	5609	5844	6080	6315	6550	6785	
Differences.											
Differences.	240	Pro. Parts.	24	48	72	96	120	144	168	192	216
	239		24	48	72	96	120	143	167	191	215
	238		24	48	71	95	119	143	167	190	214
	237		24	47	71	95	119	142	166	190	213
Differences.	236	Pro. Parts.	24	47	71	94	118	142	165	189	212
	235		24	47	71	94	118	142	165	189	212
	234		24	47	71	94	118	142	165	189	212
	233		24	47	71	94	118	142	165	189	212

No.	0	1	2	3	4	5	6	7	8	9	D.	
1848	2667020	7255	7490	7725	7960	8195	8429	8664	8899	9134	235	
49	9369	9604	9839	0074	0309	0543	0778	1013	1248	1483		
1850	2671717	1952	2187	2421	2656	2891	3126	3360	3595	3830		
51	4064	4299	4533	4768	5003	5237	5472	5706	5941	6175		
52	6410	6644	6879	7113	7348	7582	7817	8051	8285	8520	234	
53	8754	8989	9223	9457	9692	9926	0160	0394	0629	0863		
54	2681097	1332	1566	1800	2034	2268	2503	2737	2971	3205		
55	3439	3673	3907	4141	4376	4610	4844	5078	5312	5546		
56	5780	6014	6248	6482	6716	6950	7183	7417	7651	7885	233	
57	8119	8353	8587	8821	9054	9288	9522	9756	9990	0223		
58	2690457	0691	0925	1158	1392	1626	1859	2093	2327	2560		
59	2794	3028	3261	3495	3728	3962	4195	4429	4662	4896		
1860	5129	5363	5596	5830	6063	6297	6530	6764	6997	7230	232	
61	7464	7697	7930	8164	8397	8630	8864	9097	9330	9564		
62	9797	0030	0263	0496	0730	0963	1196	1429	1662	1895		
63	2702129	2362	2595	2828	3061	3294	3527	3760	3993	4226		
64	4459	4692	4925	5158	5391	5624	5857	6090	6323	6555	231	
65	6788	7021	7254	7487	7720	7953	8185	8418	8651	8884		
66	9116	9349	9582	9815	0047	0280	0513	0745	0978	1211		
67	2711443	1676	1908	2141	2374	2606	2839	3071	3304	3536		
68	3769	4001	4234	4466	4699	4931	5163	5396	5628	5861	230	
69	6093	6325	6558	6790	7022	7255	7487	7719	7952	8184		
1870	8416	8648	8881	9113	9345	9577	9809	0041	0274	0506		
71	2720738	0970	1202	1434	1666	1898	2130	2362	2594	2826		
72	3058	3290	3522	3754	3986	4218	4450	4682	4914	5146	229	
73	5378	5610	5841	6073	6305	6537	6769	7001	7232	7464		
74	7696	7928	8159	8391	8623	8854	9086	9318	9549	9781		
75	2730013	0244	0476	0708	0939	1171	1402	1634	1865	2097		
76	2328	2560	2791	3023	3254	3486	3717	3949	4180	4411	228	
77	4643	4874	5105	5337	5568	5799	6031	6262	6493	6725		
78	6956	7187	7418	7650	7881	8112	8343	8574	8806	9037		
79	9268	9499	9730	9961	0192	0423	0654	0885	1116	1347		
1880	2741578	1809	2040	2271	2502	2733	2964	3195	3426	3657	227	
81	3888	4119	4350	4581	4811	5042	5273	5504	5735	5965		
82	6196	6427	6658	6888	7119	7350	7581	7811	8042	8273		
83	8503	8734	8964	9195	9426	9656	9887	0117	0348	0578		
84	2750809	1039	1270	1500	1731	1961	2192	2422	2653	2883	226	
85	3114	3344	3574	3805	4035	4265	4496	4726	4956	5187		
86	5417	5647	5877	6108	6338	6568	6798	7028	7259	7489		
87	7719	7949	8179	8409	8640	8870	9100	9330	9560	9790		
88	2760020	0250	0480	0710	0940	1170	1400	1630	1860	2090	225	
89	2320	2549	2779	3009	3239	3469	3699	3929	4158	4388		
Differences.												
Pro. Parts.												
235	24	47	71	94	118	141	165	188	212			
234	23	47	70	94	117	140	164	187	211			
233	23	47	70	93	117	140	163	186	210			
232	23	46	70	93	116	139	162	186	209			
231	23	46	69	92	116	139	162	185	208			

No.	0	1	2	3	4	5	6	7	8	9	D.
1890	2764618	4848	5078	5307	5537	5767	5997	6226	6456	6686	230
91	6915	7145	7375	7604	7834	8063	8293	8523	8752	8982	
92	9211	9441	9670	9900	0129	0359	0588	0818	1047	1277	
93	2771506	1736	1965	2194	2424	2653	2882	3112	3341	3570	
94	3800	4029	4258	4488	4717	4946	5175	5405	5634	5863	
95	6092	6321	6550	6780	7009	7238	7467	7696	7925	8154	
96	8383	8612	8841	9070	9299	9528	9757	9986	0215	0444	
97	2780673	0902	1131	1360	1589	1818	2047	2276	2504	2733	229
98	2962	3191	3420	3648	3877	4106	4335	4564	4792	5021	
99	5250	5478	5707	5936	6164	6393	6622	6850	7079	7307	
1900	7536	7765	7993	8222	8450	8679	8907	9136	9364	9593	
01	9821	0050	0278	0506	0735	0963	1192	1420	1648	1877	
02	2792105	2333	2562	2790	3018	3247	3475	3703	3931	4160	
03	4388	4616	4844	5072	5301	5529	5757	5985	6213	6441	
04	6669	6898	7126	7354	7582	7810	8038	8266	8494	8722	228
05	8950	9178	9406	9634	9862	0090	0317	0545	0773	1001	
06	2801229	1457	1685	1912	2140	2368	2596	2824	3051	3279	
07	3507	3735	3962	4190	4418	4645	4873	5101	5328	5556	
08	5784	6011	6239	6467	6694	6922	7149	7377	7604	7832	
09	8059	8287	8514	8742	8969	9197	9424	9651	9879	0106	
1910	2810334	0561	0788	1016	1243	1470	1698	1925	2152	2380	
11	2607	2834	3061	3289	3516	3743	3970	4197	4425	4652	
12	4879	5106	5333	5560	5787	6014	6242	6469	6696	6923	
13	7150	7377	7604	7831	8058	8285	8512	8739	8966	9192	227
14	9419	9646	9873	0100	0327	0554	0781	1007	1234	1461	
15	2821688	1915	2141	2368	2595	2822	3048	3275	3502	3728	
16	3955	4182	4408	4635	4862	5088	5315	5541	5768	5995	
17	6221	6448	6674	6901	7127	7354	7580	7807	8033	8260	
18	8486	8712	8939	9165	9392	9618	9844	0071	0297	0523	
19	2830750	0976	1202	1429	1655	1881	2107	2334	2560	2786	
1920	3012	3238	3465	3691	3917	4143	4369	4595	4821	5048	
21	5274	5500	5726	5952	6178	6404	6630	6856	7082	7308	
22	7534	7760	7986	8212	8438	8663	8889	9115	9341	9567	226
23	9793	0019	0245	0470	0696	0922	1148	1373	1599	1825	
24	2842051	2276	2502	2728	2953	3179	3405	3630	3856	4082	
25	4307	4533	4759	4984	5210	5435	5661	5886	6112	6337	
26	6563	6788	7014	7239	7465	7690	7916	8141	8366	8592	
27	8817	9043	9268	9493	9719	9944	0169	0394	0620	0845	
28	2851070	1296	1521	1746	1971	2196	2422	2647	2872	3097	
29	3322	3547	3773	3998	4223	4448	4673	4898	5123	5348	
1930	5573	5798	6023	6248	6473	6698	6923	7148	7373	7598	
31	7823	8048	8273	8497	8722	8947	9172	9397	9622	9846	
Differences.	230	23	46	69	92	115	138	161	184	207	
	229	23	46	69	92	115	137	160	183	206	
	228	23	46	68	91	114	137	160	182	205	
	227	23	45	68	91	114	136	159	182	204	
	226	23	45	68	90	113	136	158	181	203	

No.	0	1	2	3	4	5	6	7	8	9	D.
1932	2860071	0296	0521	0746	0970	1195	1420	1644	1869	2094	225
33	2319	2543	2768	2993	3217	3442	3666	3891	4116	4340	
34	4565	4789	5014	5238	5463	5687	5912	6136	6361	6585	
35	6810	7034	7259	7483	7707	7932	8156	8381	8605	8829	
36	9054	9278	9502	9726	9951	0175	0399	0624	0848	1072	
37	2871296	1520	1745	1969	2193	2417	2641	2865	3090	3314	
38	3538	3762	3986	4210	4434	4658	4882	5106	5330	5554	
39	5778	6002	6226	6450	6674	6898	7122	7346	7570	7793	
1940	8017	8241	8465	8689	8918	9136	9360	9584	9808	0032	224
41	2880255	0479	0703	0927	1150	1374	1598	1821	2045	2269	
42	2492	2716	2939	3163	3387	3610	3834	4057	4281	4504	
43	4728	4952	5175	5399	5622	5845	6069	6292	6516	6739	
44	6963	7186	7409	7633	7856	8079	8303	8526	8749	8973	
45	9196	9419	9643	9866	0089	0312	0536	0759	0982	1205	
46	2891428	1652	1875	2098	2321	2544	2767	2990	3213	3436	
47	3660	3883	4106	4329	4552	4775	4998	5221	5444	5667	
48	5890	6112	6335	6558	6781	7004	7227	7450	7673	7896	
49	8118	8341	8564	8787	9010	9232	9455	9678	9901	0123	223
1950	2900346	0569	0792	1014	1237	1460	1682	1905	2127	2350	
51	2573	2795	3018	3240	3463	3686	3908	4131	4353	4576	
52	4798	5021	5243	5466	5688	5910	6133	6355	6578	6800	
53	7022	7245	7467	7690	7912	8134	8356	8579	8801	9023	
54	9246	9468	9690	9912	0135	0357	0579	0801	1023	1245	
55	2911468	1690	1912	2134	2356	2578	2800	3022	3244	3466	
56	3689	3911	4133	4355	4577	4799	5020	5242	5464	5686	
57	5908	6130	6352	6574	6796	7018	7240	7461	7683	7905	
58	8127	8349	8570	8792	9014	9236	9458	9679	9901	0123	222
59	2920344	0566	0788	1009	1231	1453	1674	1896	2118	2339	
1960	2561	2782	3004	3225	3447	3668	3890	4111	4333	4554	
61	4776	4997	5219	5440	5662	5883	6105	6326	6547	6769	
62	6990	7211	7433	7654	7875	8097	8318	8539	8760	8982	
63	9203	9424	9645	9867	0088	0309	0530	0751	0973	1194	
64	2931415	1636	1857	2078	2299	2520	2741	2962	3183	3405	
65	3626	3847	4068	4289	4510	4730	4951	5172	5393	5614	
66	5835	6056	6277	6498	6719	6940	7160	7381	7602	7823	
67	8044	8264	8485	8706	8927	9147	9368	9589	9810	0030	221
68	2940251	0472	0692	0913	1134	1354	1575	1795	2016	2237	
69	2457	2678	2898	3119	3339	3560	3780	4001	4221	4442	
1970	4662	4883	5103	5324	5544	5764	5985	6205	6426	6646	
71	6866	7087	7307	7527	7748	7968	8188	8408	8629	8849	
72	9069	9289	9510	9730	9950	0170	0390	0610	0831	1051	
73	2951271	1491	1711	1931	2151	2371	2591	2811	3031	3251	
Differences.	225	223	222	221	220	219	218	217	216	215	
Pro. Parts.	23	45	68	90	113	135	158	180	203		
	224	22	45	67	90	112	134	157	179	202	
	223	22	45	67	89	112	134	156	178	201	
	222	22	44	67	89	111	133	155	178	200	
	221	22	44	66	88	111	133	155	177	199	

No.	0	1	2	3	4	5	6	7	8	9	D.
1974	2953471	3691	3911	4131	4351	4571	4791	5011	5231	5451	220
75	5671	5891	6111	6331	6550	6770	6990	7210	7430	7650	
76	7869	8089	8309	8529	8748	8968	9188	9408	9627	9847	
77	2960067	0286	0506	0726	0945	1165	1385	1604	1824	2043	
78	2263	2482	2702	2922	3141	3361	3580	3800	4019	4238	
79	4458	4677	4897	5116	5336	5555	5774	5994	6213	6433	
1980	6652	6871	7091	7310	7529	7748	7968	8187	8406	8626	
81	8845	9064	9283	9502	9722	9941	0160	0379	0598	0817	
82	2971037	1256	1475	1694	1913	2132	2351	2570	2789	3008	219
83	3227	3446	3665	3884	4103	4322	4541	4760	4979	5198	
84	5417	5636	5854	6073	6292	6511	6730	6949	7168	7386	
85	7605	7824	8043	8261	8480	8699	8918	9136	9355	9574	
86	9792	0011	0230	0448	0667	0886	1104	1323	1542	1760	
87	2981979	2197	2416	2634	2853	3071	3290	3508	3727	3945	
88	4164	4382	4601	4819	5038	5256	5474	5693	5911	6129	
89	6348	6566	6785	7003	7221	7439	7658	7876	8094	8313	
1990	8531	8749	8967	9185	9404	9622	9840	0058	0276	0494	
91	2990713	0931	1149	1367	1585	1803	2021	2239	2457	2675	
92	2893	3111	3329	3547	3765	3983	4201	4419	4637	4855	218
93	5073	5291	5509	5727	5945	6162	6380	6598	6816	7034	
94	7232	7469	7687	7905	8123	8340	8558	8776	8994	9211	
95	9429	9647	9864	0082	0300	0517	0735	0953	1170	1388	
96	3001605	1823	2041	2258	2476	2693	2911	3128	3346	3563	
97	3781	3998	4216	4433	4650	4868	5085	5303	5520	5737	
98	5955	6172	6390	6607	6824	7042	7259	7476	7693	7911	
99	8128	8345	8562	8780	8997	9214	9431	9648	9866	0083	
2000	3010300	0517	0734	0951	1168	1386	1603	1820	2037	2254	
01	2471	2688	2905	3122	3339	3556	3773	3990	4207	4424	217
02	4641	4858	5075	5291	5508	5725	5942	6159	6376	6593	
03	6809	7026	7243	7460	7677	7893	8110	8327	8544	8760	
04	8977	9194	9411	9627	9844	0061	0277	0494	0711	0927	
05	3021144	1360	1577	1794	2010	2227	2443	2660	2876	3093	
06	3309	3526	3742	3959	4175	4392	4608	4825	5041	5257	
07	5474	5690	5906	6123	6339	6556	6772	6988	7204	7421	
08	7637	7853	8070	8286	8502	8718	8935	9151	9367	9583	
09	9799	0016	0232	0448	0664	0880	1096	1312	1528	1745	
2010	3031961	2177	2393	2609	2825	3041	3257	3473	3689	3905	216
11	4121	4337	4553	4769	4984	5200	5416	5632	5848	6064	
12	6280	6496	6711	6927	7143	7359	7575	7790	8006	8222	
13	8438	8653	8869	9085	9301	9516	9732	9948	0163	0379	
14	3040595	0810	1026	1242	1457	1673	1888	2104	2319	2535	
15	2751	2966	3182	3397	3613	3828	4043	4259	4474	4690	
Differences.	220	22	44	66	88	110	132	154	176	198	
	219	22	44	66	88	110	131	153	175	197	
	218	22	44	65	87	109	131	153	174	196	
	217	22	43	65	87	109	130	152	174	195	
	216	22	43	65	86	108	130	151	173	194	

No.	0	1	2	3	4	5	6	7	8	9	D.
2016	3044905	5121	5336	5552	5767	5982	6198	6413	6628	6844	215
17	7059	7274	7490	7705	7920	8135	8351	8566	8781	8996	
18	9212	9427	9642	9857	0072	0288	0503	0718	0933	1148	
19	3051363	1578	1793	2008	2224	2439	2654	2869	3084	3299	
2020	3514	3729	3944	4159	4374	4589	4803	5018	5233	5448	
21	5663	5878	6093	6308	6523	6737	6952	7167	7382	7597	
22	7812	8026	8241	8456	8671	8885	9100	9315	9529	9744	
23	9959	0174	0388	0603	0817	1032	1247	1461	1676	1891	
24	3062105	2320	2534	2749	2963	3178	3392	3607	3821	4036	
25	4250	4465	4679	4894	5108	5322	5537	5751	5966	6180	
26	6394	6609	6823	7037	7252	7466	7680	7895	8109	8323	214
27	8537	8752	8966	9180	9394	9609	9823	0037	0251	0465	
28	3070680	0894	1108	1322	1536	1750	1964	2178	2392	2606	
29	2820	3035	3249	3463	3677	3891	4105	4319	4532	4746	
2030	4960	5174	5388	5602	5816	6030	6244	6458	6672	6885	
31	7099	7313	7527	7741	7954	8168	8382	8596	8810	9023	
32	9237	9451	9664	9878	0092	0306	0519	0733	0947	1160	
33	3081374	1587	1801	2015	2228	2442	2655	2869	3082	3296	
34	3509	3723	3936	4150	4363	4577	4790	5004	5217	5431	
35	5644	5858	6071	6284	6498	6711	6924	7138	7351	7564	213
36	7778	7991	8204	8418	8631	8844	9057	9271	9484	9697	
37	9910	0123	0337	0550	0763	0976	1189	1402	1616	1829	
38	3092042	2255	2468	2681	2894	3107	3320	3533	3746	3959	
39	4172	4385	4598	4811	5024	5237	5450	5663	5876	6089	
2040	6302	6515	6727	6940	7153	7366	7579	7792	8004	8217	
41	8430	8643	8856	9068	9281	9494	9707	9919	0132	0345	
42	3100557	0770	0983	1195	1408	1621	1833	2046	2258	2471	
43	2684	2896	3109	3321	3534	3746	3959	4171	4384	4596	
44	4809	5021	5234	5446	5659	5871	6084	6296	6508	6721	212
45	6933	7145	7358	7570	7783	7995	8207	8419	8632	8844	
46	9056	9269	9481	9693	9905	0117	0330	0542	0754	0966	
47	3111178	1391	1603	1815	2027	2239	2451	2663	2875	3087	
48	3300	3512	3724	3936	4148	4360	4572	4784	4996	5208	
49	5420	5632	5843	6055	6267	6479	6691	6903	7115	7327	
2050	7539	7750	7962	8174	8386	8598	8810	9021	9233	9445	
51	9657	9868	0080	0292	0504	0715	0927	1139	1350	1562	
52	3121774	1985	2197	2408	2620	2832	3043	3255	3466	3678	
53	3889	4101	4313	4524	4736	4947	5159	5370	5581	5793	211
54	6004	6216	6427	6639	6850	7061	7273	7484	7696	7907	
55	8118	8330	8541	8752	8964	9175	9386	9597	9809	0020	
56	3130231	0442	0654	0865	1076	1287	1498	1709	1921	2132	
57	2343	2554	2765	2976	3187	3398	3610	3821	4032	4243	
Differences.	215	21	43	65	86	108	129	151	172	194	
	214	21	43	64	86	107	128	150	171	193	
	213	21	43	64	85	107	128	149	170	192	
	212	21	42	64	85	106	127	148	170	191	
	211	21	42	63	84	106	127	148	169	190	

No.	0	1	2	3	4	5	6	7	8	9	D.
2058	3134454	4665	4876	5087	5298	5509	5720	5931	6142	6353	210
59	6563	6774	6985	7196	7407	7618	7829	8040	8251	8461	
2060	8672	8883	9094	9305	9515	9726	9937	0148	0358	0569	
61	3140780	0991	1201	1412	1623	1833	2044	2255	2465	2676	
62	2887	3097	3308	3518	3729	3940	4150	4361	4571	4782	
63	4992	5203	5413	5624	5834	6045	6255	6466	6676	6887	
64	7097	7307	7518	7728	7939	8149	8359	8570	8780	8990	
65	9201	9411	9621	9831	0042	0252	0462	0672	0883	1093	
66	3151303	1513	1724	1934	2144	2354	2564	2774	2985	3195	
67	3405	3615	3825	4035	4245	4455	4665	4875	5085	5295	
68	5505	5715	5925	6135	6345	6555	6765	6975	7185	7395	209
69	7605	7815	8025	8235	8444	8654	8864	9074	9284	9494	
2070	9703	9913	0123	0333	0543	0752	0962	1172	1382	1591	
71	3161801	2011	2220	2430	2640	2849	3059	3269	3478	3688	
72	3898	4107	4317	4526	4736	4945	5155	5364	5574	5784	
73	5993	6203	6412	6621	6831	7040	7250	7459	7669	7878	
74	8088	8297	8506	8716	8925	9134	9344	9553	9762	9972	
75	3170181	0390	0600	0809	1018	1227	1437	1646	1855	2064	
76	2273	2483	2692	2901	3110	3319	3528	3738	3947	4156	
77	4365	4574	4783	4992	5201	5410	5619	5828	6037	6246	208
78	6455	6664	6873	7082	7291	7500	7709	7918	8127	8336	
79	8545	8754	8963	9172	9380	9589	9798	0007	0216	0425	
2080	3180633	0842	1051	1260	1468	1677	1886	2095	2303	2512	
81	2721	2929	3138	3347	3556	3764	3973	4181	4390	4599	
82	4807	5016	5224	5433	5642	5850	6059	6267	6476	6684	
83	6893	7101	7310	7518	7727	7935	8143	8352	8560	8769	
84	8977	9186	9394	9602	9811	0019	0227	0436	0644	0852	
85	3191061	1269	1477	1685	1894	2102	2310	2518	2727	2935	
86	3143	3351	3559	3768	3976	4184	4392	4600	4808	5016	207
87	5224	5433	5641	5849	6057	6265	6473	6681	6889	7097	
88	7305	7513	7721	7929	8137	8345	8553	8761	8969	9176	
89	9384	9592	9800	0008	0216	0424	0632	0839	1047	1255	
2090	3201463	1671	1878	2086	2294	2502	2709	2917	3125	3333	
91	3540	3748	3956	4163	4371	4579	4786	4994	5202	5409	
92	5617	5824	6032	6240	6447	6655	6862	7070	7277	7485	
93	7692	7900	8107	8315	8522	8730	8937	9145	9352	9559	
94	9767	9974	0182	0389	0596	0804	1011	1218	1426	1633	
95	3211840	2048	2255	2462	2669	2877	3084	3291	3498	3706	
96	3913	4120	4327	4534	4742	4949	5156	5363	5570	5777	206
97	5984	6191	6398	6606	6813	7020	7227	7434	7641	7848	
98	8055	8262	8469	8676	8883	9090	9297	9504	9711	9917	
99	3220124	0331	0538	0745	0952	1159	1366	1572	1779	1986	
2100	2193	2400	2607	2813	3020	3227	3434	3640	3847	4054	
Differ.	210	Pro. Parts.	21	42	63	84	105	126	147	168	189
	209		21	42	63	84	105	125	146	167	188
	208		21	42	62	83	104	125	146	166	187
	207		21	41	62	83	104	124	145	166	186

No.	0	1	2	3	4	5	6	7	8	9	D.
2101	3224261	4467	4674	4881	5087	5294	5501	5707	5914	6121	
02	6327	6534	6740	6947	7153	7360	7567	7773	7980	8186	
03	8393	8599	8806	9012	9219	9425	9632	9838	0045	0251	
04	3230457	0664	0870	1077	1283	1489	1696	1902	2108	2315	
05	2521	2727	2934	3140	3346	3552	3759	3965	4171	4377	
06	4584	4790	4996	5202	5408	5615	5821	6027	6233	6439	
07	6645	6851	7058	7264	7470	7676	7882	8088	8294	8500	
08	8706	8912	9118	9324	9530	9736	9942	0148	0354	0560	206
09	3240766	0972	1178	1384	1589	1795	2001	2207	2413	2619	
2110	2825	3030	3236	3442	3648	3854	4059	4265	4471	4677	
11	4882	5088	5294	5499	5705	5911	6117	6322	6528	6734	
12	6939	7145	7350	7556	7762	7967	8173	8378	8584	8789	
13	8995	9201	9406	9612	9817	0023	0228	0433	0639	0844	
14	3251050	1255	1461	1666	1872	2077	2282	2488	2693	2898	
15	3104	3309	3514	3720	3925	4130	4336	4541	4746	4951	
16	5157	5362	5567	5772	5978	6183	6388	6593	6798	7003	
17	7209	7414	7619	7824	8029	8234	8439	8644	8849	9055	
18	9260	9465	9670	9875	0080	0285	0490	0695	0900	1105	205
19	3261310	1515	1719	1924	2129	2334	2539	2744	2949	3154	
2120	3359	3563	3768	3973	4178	4383	4588	4792	4997	5202	
21	5407	5611	5816	6021	6226	6430	6635	6840	7044	7249	
22	7454	7658	7863	8068	8272	8477	8682	8886	9091	9295	
23	9500	9705	9909	0114	0318	0523	0727	0932	1136	1341	
24	3271545	1750	1954	2158	2363	2567	2772	2976	3181	3385	
25	3589	3794	3998	4202	4407	4611	4815	5020	5224	5428	
26	5633	5837	6041	6245	6450	6654	6858	7062	7267	7471	
27	7675	7879	8083	8287	8492	8696	8900	9104	9308	9512	
28	9716	9920	0124	0328	0533	0737	0941	1145	1349	1553	204
29	3281757	1961	2165	2369	2572	2776	2980	3184	3388	3592	
2130	3796	4000	4204	4408	4612	4815	5019	5223	5427	5631	
31	5834	6038	6242	6446	6650	6853	7057	7261	7465	7668	
32	7872	8076	8279	8483	8687	8890	9094	9298	9501	9705	
33	9909	0112	0316	0519	0723	0926	1130	1334	1537	1741	
34	3291944	2148	2351	2555	2758	2962	3165	3369	3572	3775	
35	3979	4182	4386	4589	4792	4996	5199	5402	5606	5809	
36	6012	6216	6419	6622	6826	7029	7232	7436	7639	7842	
37	8045	8248	8452	8655	8858	9061	9264	9468	9671	9874	
38	3300077	0280	0483	0686	0889	1093	1296	1499	1702	1905	208
39	2108	2311	2514	2717	2920	3123	3326	3529	3732	3935	
2140	4138	4341	4544	4747	4949	5152	5355	5558	5761	5964	
41	6167	6370	6572	6775	6978	7181	7384	7586	7789	7992	
42	8195	8397	8600	8803	9006	9208	9411	9614	9816	0019	
43	3310222	0424	0627	0830	1032	1235	1437	1640	1843	2045	
Differ.	206	205	204	203	202	201	200	199	198	197	
Pro. Part.	21	41	62	82	103	124	144	165	185		
	21	41	62	82	103	123	144	164	185		
	20	41	61	82	102	122	143	163	184		
	20	41	61	81	102	122	142	162	183		

No.	0	1	2	3	4	5	6	7	8	9	D.						
2144	3312248	2450	2653	2855	3058	3261	3463	3666	3868	4070							
45	4273	4475	4678	4880	5083	5285	5488	5690	5892	6095							
46	6297	6500	6702	6904	7107	7309	7511	7714	7916	8118							
47	8320	8523	8725	8927	9129	9332	9534	9736	9938	0141							
48	3320343	0545	0747	0949	1151	1354	1556	1758	1960	2162							
49	2364	2566	2768	2970	3172	3374	3577	3779	3981	4183							
2150	4385	4587	4789	4991	5193	5394	5596	5798	6000	6202	202						
51	6404	6606	6808	7010	7212	7414	7615	7817	8019	8221							
52	8423	8624	8826	9028	9230	9432	9633	9835	0037	0239							
53	3330440	0642	0844	1045	1247	1449	1650	1852	2054	2255							
54	2457	2659	2860	3062	3263	3465	3667	3868	4070	4271							
55	4473	4674	4876	5077	5279	5480	5682	5883	6085	6286							
56	6488	6689	6890	7092	7293	7495	7696	7897	8099	8300							
57	8501	8703	8904	9105	9307	9508	9709	9911	0112	0313							
58	3340514	0716	0917	1118	1319	1521	1722	1923	2124	2325							
59	2526	2728	2929	3130	3331	3532	3733	3934	4135	4336	201						
2160	4538	4739	4940	5141	5342	5543	5744	5945	6146	6347							
61	6548	6749	6950	7151	7351	7552	7753	7954	8155	8356							
62	8557	8758	8959	9159	9360	9561	9762	9963	0164	0364							
63	3350565	0766	0967	1168	1368	1569	1770	1970	2171	2372							
64	2573	2773	2974	3175	3375	3576	3777	3977	4178	4378							
65	4579	4780	4980	5181	5381	5582	5782	5983	6183	6384							
66	6585	6785	6986	7186	7386	7587	7787	7988	8188	8389							
67	8589	8790	8990	9190	9391	9591	9791	9992	0192	0392							
68	3360593	0793	0993	1194	1394	1594	1795	1995	2195	2395							
69	2596	2796	2996	3196	3396	3597	3797	3997	4197	4397							
2170	4597	4797	4998	5198	5398	5598	5798	5998	6198	6398							
71	6598	6798	6998	7198	7398	7598	7798	7998	8198	8398	200						
72	8598	8798	8998	9198	9398	9598	9798	9998	0198	0397							
73	3370597	0797	0997	1197	1397	1596	1796	1996	2196	2396							
74	2595	2795	2995	3195	3394	3594	3794	3994	4193	4393							
75	4593	4792	4992	5192	5391	5591	5791	5990	6190	6389							
76	6589	6788	6988	7188	7387	7587	7786	7986	8185	8385							
77	8584	8784	8983	9183	9382	9582	9781	9981	0180	0379							
78	3380579	0778	0978	1177	1376	1576	1775	1974	2174	2373							
79	2572	2772	2971	3170	3369	3569	3768	3967	4166	4366							
2180	4565	4764	4963	5163	5362	5561	5760	5959	6158	6358							
81	6557	6756	6955	7154	7353	7552	7751	7950	8149	8348	199						
82	8547	8746	8946	9145	9344	9543	9742	9940	0139	0338							
83	3390537	0736	0935	1134	1333	1532	1731	1930	2129	2327							
84	2526	2725	2924	3123	3322	3520	3719	3918	4117	4316							
85	4514	4713	4912	5111	5309	5508	5707	5906	6104	6303							
86	6502	6700	6899	7098	7296	7495	7693	7892	8091	8289							
Differ.	202	201	200	199	Pro. Parts.	20	40	61	81	101	121	141	162	182	181	180	179

No.	0	1	2	3	4	5	6	7	8	9	11.
2187	3398488	8686	8885	9084	9282	9481	9679	9878	0076	0275	
88	3400473	0672	0870	1069	1267	1466	1664	1862	2061	2259	
89	2458	2656	2854	3053	3251	3449	3648	3846	4045	4243	
2190	4441	4639	4838	5036	5234	5433	5631	5829	6027	6226	
91	6424	6622	6820	7018	7217	7415	7613	7811	8009	8207	
92	8405	8604	8802	9000	9198	9396	9594	9792	9990	0188	198
93	3410386	0584	0782	0980	1178	1376	1574	1772	1970	2168	
94	2366	2564	2762	2960	3158	3356	3554	3752	3950	4147	
95	4345	4543	4741	4939	5137	5334	5532	5730	5928	6126	
96	6323	6521	6719	6917	7114	7312	7510	7708	7905	8103	
97	8301	8498	8696	8894	9091	9289	9486	9684	9882	0079	
98	3420277	0474	0672	0870	1067	1265	1462	1660	1857	2055	
99	2252	2450	2647	2845	3042	3240	3437	3635	3832	4029	
2200	4227	4424	4622	4819	5016	5214	5411	5608	5806	6003	
01	6200	6398	6595	6792	6990	7187	7384	7581	7779	7976	
02	8173	8370	8568	8765	8962	9159	9356	9554	9751	9948	
03	3430145	0342	0539	0736	0933	1131	1328	1525	1722	1919	197
04	2116	2313	2510	2707	2904	3101	3298	3495	3692	3889	
05	4086	4283	4480	4677	4874	5071	5268	5464	5661	5858	
06	6055	6252	6449	6646	6842	7039	7236	7433	7630	7827	
07	8023	8220	8417	8614	8810	9007	9204	9401	9597	9794	
08	9991	0187	0384	0581	0777	0974	1171	1367	1564	1761	
09	3441957	2154	2350	2547	2743	2940	3137	3333	3530	3726	
2210	3923	4119	4316	4512	4709	4905	5102	5298	5495	5691	
11	5887	6084	6280	6477	6673	6869	7066	7262	7459	7655	
12	7851	8048	8244	8440	8636	8833	9029	9225	9422	9618	
13	9814	0010	0207	0403	0599	0795	0991	1188	1384	1580	
14	3451776	1972	2168	2365	2561	2757	2953	3149	3345	3541	196
15	3737	3933	4129	4325	4522	4718	4914	5110	5306	5502	
16	5698	5894	6090	6285	6481	6677	6873	7069	7265	7461	
17	7657	7853	8049	8245	8440	8636	8832	9028	9224	9420	
18	9615	9811	0007	0203	0399	0594	0790	0986	1182	1377	
19	3461573	1769	1964	2160	2356	2551	2747	2943	3138	3334	
2220	3530	3725	3921	4117	4312	4508	4703	4899	5094	5290	
21	5486	5681	5877	6072	6268	6463	6659	6854	7050	7245	
22	7441	7636	7831	8027	8222	8418	8613	8808	9004	9199	
23	9395	9590	9785	9981	0176	0371	0567	0762	0957	1153	

No.	0	1	2	3	4	5	6	7	8	9	D.			
2230	3483049	3243	3438	3633	3828	4022	4217	4412	4606	4801				
31	4996	5190	5385	5580	5774	5969	6164	6358	6553	6747				
32	6942	7136	7331	7526	7720	7915	8109	8304	8498	8693				
33	8887	9082	9276	9471	9665	9860	0054	0248	0443	0637				
34	3490832	1026	1220	1415	1609	1804	1998	2192	2387	2581				
35	2775	2970	3164	3358	3552	3747	3941	4135	4330	4524				
36	4718	4912	5106	5301	5495	5689	5883	6077	6272	6466				
37	6660	6854	7048	7242	7436	7630	7825	8019	8213	8407				
38	8601	8795	8989	9183	9377	9571	9765	9959	0153	0347	194			
39	3730541	0735	0929	1123	1317	1511	1705	1898	2092	2286				
2240	2480	2674	2868	3062	3256	3449	3643	3837	4031	4225				
41	4419	4612	4806	5000	5194	5387	5581	5775	5969	6162				
42	6356	6550	6743	6937	7131	7325	7518	7712	7905	8099				
43	8293	8486	8680	8874	9067	9261	9454	9648	9841	0035				
44	3510229	0422	0616	0809	1003	1196	1390	1583	1777	1970				
45	2163	2357	2550	2744	2937	3131	3324	3517	3711	3904				
46	4098	4291	4484	4678	4871	5064	5258	5451	5644	5837				
47	6031	6224	6417	6611	6804	6997	7190	7383	7577	7770				
48	7963	8156	8349	8543	8736	8929	9122	9315	9508	9701				
49	9895	0088	0281	0474	0667	0860	1053	1246	1439	1632	193			
2250	3521825	2018	2211	2404	2597	2790	2983	3176	3369	3562				
51	3755	3948	4141	4334	4527	4720	4912	5105	5298	5491				
52	5684	5877	6070	6262	6455	6648	6841	7034	7226	7419				
53	7612	7805	7997	8190	8383	8576	8768	8961	9154	9346				
54	9539	9732	9924	0117	0310	0502	0695	0888	1080	1273				
55	3531465	1658	1851	2043	2236	2428	2621	2813	3006	3198				
56	3391	3583	3776	3968	4161	4353	4546	4738	4931	5123				
57	5316	5508	5700	5893	6085	6278	6470	6662	6855	7047				
58	7239	7432	7624	7816	8009	8201	8393	8586	8778	8970				
59	9162	9355	9547	9739	9931	0123	0316	0508	0700	0892	192			
2260	3541084	1277	1469	1661	1853	2045	2237	2429	2621	2814				
61	3006	3198	3390	3582	3774	3966	4158	4350	4542	4734				
62	4926	5118	5310	5502	5694	5886	6078	6270	6462	6654				
63	6846	7037	7229	7421	7613	7805	7997	8189	8381	8572				
64	8764	8956	9148	9340	9531	9723	9915	0107	0299	0490				
65	3550682	0874	1066	1257	1449	1641	1832	2024	2216	2407				
66	2599	2791	2982	3174	3366	3557	3749	3940	4132	4324				
67	4515	4707	4898	5090	5281	5473	5664	5856	6048	6239				
68	6431	6622	6813	7005	7196	7388	7579	7771	7962	8154				
69	8345	8536	8728	8919	9111	9302	9493	9685	9876	0067				
2270	3560259	0450	0641	0832	1024	1215	1406	1598	1789	1980	191			
71	2171	2363	2554	2745	2936	3127	3319	3510	3701	3892				
72	4083	4274	4466	4657	4848	5039	5230	5421	5612	5803				
Differ.	194	193	192	191	Pro. Part.	19	39	58	78	97	116	136	155	175
						19	39	58	77	97	116	135	154	174
						19	38	58	77	96	115	134	154	173
						19	38	57	76	96	115	134	153	172

No.	0	1	2	3	4	5	6	7	8	9	D.
2273	3565994	6185	6376	6568	6759	6950	7141	7332	7523	7714	
74	7905	8096	8287	8478	8668	8859	9050	9241	9432	9623	
75	9814	0005	0196	0387	0578	0768	0959	1150	1341	1532	
76	3571723	1913	2104	2295	2486	2677	2867	3058	3249	3440	
77	3630	3821	4012	4202	4393	4584	4775	4965	5156	5347	
78	5537	5728	5918	6109	6300	6490	6681	6872	7062	7253	
79	7443	7634	7824	8015	8205	8396	8586	8777	8967	9158	
2280	9348	9539	9729	9920	0110	0301	0491	0682	0872	1062	
81	3581253	1443	1634	1824	2014	2205	2395	2585	2776	2966	
82	3156	3347	3537	3727	3918	4108	4298	4488	4679	4869	
83	5059	5249	5440	5630	5820	6010	6200	6391	6581	6771	
84	6961	7151	7341	7531	7721	7912	8102	8292	8482	8672	190
85	8862	9052	9242	9432	9622	9812	0002	0192	0382	0572	
86	3590762	0952	1142	1332	1522	1712	1902	2092	2282	2472	
87	2662	2852	3041	3231	3421	3611	3801	3991	4181	4370	
88	4560	4750	4940	5130	5319	5509	5699	5889	6078	6268	
89	6458	6648	6837	7027	7217	7406	7596	7786	7976	8165	
2290	8355	8544	8734	8924	9113	9303	9493	9682	9872	0061	
91	3600251	0440	0630	0820	1009	1199	1388	1578	1767	1957	
92	2146	2336	2525	2715	2904	3093	3283	3472	3662	3851	
93	4041	4230	4419	4609	4798	4987	5177	5366	5555	5745	
94	5934	6123	6313	6502	6691	6881	7070	7259	7448	7638	
95	7827	8016	8205	8395	8584	8773	8962	9151	9341	9530	189
96	9719	9908	0097	0286	0475	0664	0854	1043	1232	1421	
97	3611610	1799	1988	2177	2366	2555	2744	2933	3122	3311	
98	3500	3689	3878	4067	4256	4445	4634	4823	5012	5201	
99	5390	5579	5768	5956	6145	6334	6523	6712	6901	7090	
2300	7278	7467	7656	7845	8034	8222	8411	8600	8789	8977	
01	9166	9355	9544	9732	9921	0110	0298	0487	0676	0865	
02	3621053	1242	1430	1619	1808	1996	2185	2374	2562	2751	
03	2939	3128	3317	3505	3694	3882	4071	4259	4448	4636	
04	4825	5013	5202	5390	5579	5767	5956	6144	6332	6521	
05	6709	6898	7086	7275	7463	7651	7840	8028	8216	8405	
06	8593	8781	8970	9158	9346	9535	9723	9911	0099	0288	
07	3630476	0664	0852	1041	1229	1417	1605	1794	1982	2170	
08	2358	2546	2734	2923	3111	3299	3487	3675	3863	4051	
09	4239	4427	4615	4804	4992	5180	5368	5556	5744	5932	188
2310	6120	6308	6496	6684	6872	7060	7248	7436	7624	7812	
11	7999	8187	8375	8563	8751	8939	9127	9315	9503	9690	
12	9878	0066	0254	0442	0630	0817	1005	1193	1381	1569	
13	3641756	1944	2132	2320	2507	2695	2883	3070	3258	3446	
14	3634	3821	4009	4197	4384	4572	4759	4947	5135	5322	
15	5510	5698	5885	6073	6260	6448	6635	6823	7010	7198	
16	7386	7573	7761	7948	8136	8323	8511	8698	8885	9073	
Differ.											
190	19	38	57	76	95	114	133	152	171		
189	19	38	57	76	95	113	132	151	170		
188	19	38	56	75	94	113	132	150	169		

No.	0	1	2	3	4	5	6	7	8	9	D.
2317	3649260	9448	9635	9823	0010	0197	0385	0572	0760	0947	
18	3651134	1322	1509	1696	1884	2071	2258	2446	2633	2820	
19	3007	3195	3382	3569	3757	3944	4131	4318	4505	4693	
2320	4880	5067	5254	5441	5629	5816	6003	6190	6377	6564	
21	6751	6939	7126	7313	7500	7687	7874	8061	8248	8435	
22	8622	8809	8996	9183	9370	9557	9744	9931	0118	0305	
23	3660492	0679	0866	1053	1240	1427	1614	1801	1987	2174	
24	2361	2548	2735	2922	3109	3296	3482	3669	3856	4043	
25	4230	4416	4603	4790	4977	5163	5350	5537	5724	5910	
26	6097	6284	6471	6657	6844	7031	7217	7404	7591	7777	187
27	7964	8150	8337	8524	8710	8897	9083	9270	9457	9643	
28	9830	0016	0203	0389	0576	0762	0949	1135	1322	1508	
29	3671695	1881	2068	2254	2441	2627	2814	3000	3186	3373	
2330	3559	3746	3932	4118	4305	4491	4677	4864	5050	5236	
31	5423	5609	5795	5982	6168	6354	6540	6727	6913	7099	
32	7285	7472	7658	7844	8030	8217	8403	8589	8775	8961	
33	9147	9334	9520	9706	9892	0078	0264	0450	0636	0822	
34	3681009	1195	1381	1567	1753	1939	2125	2311	2497	2683	
35	2869	3055	3241	3427	3613	3799	3985	4171	4357	4542	
36	4728	4914	5100	5286	5472	5658	5844	6030	6215	6401	
37	6587	6773	6959	7145	7330	7516	7702	7888	8074	8259	
38	8445	8631	8817	9002	9188	9374	9559	9745	9931	0117	186
39	3690302	0488	0674	0859	1045	1230	1416	1602	1787	1973	
2340	2159	2344	2530	2715	2901	3086	3272	3458	3643	3829	
41	4014	4200	4385	4571	4756	4942	5127	5313	5498	5683	
42	5869	6054	6240	6425	6611	6796	6981	7167	7352	7538	
43	7723	7908	8094	8279	8464	8650	8835	9020	9205	9391	
44	9576	9761	9947	0132	0317	0502	0688	0873	1058	1243	
45	3701428	1614	1799	1984	2169	2354	2540	2725	2910	3095	
46	3280	3465	3650	3835	4020	4206	4391	4576	4761	4946	
47	5131	5316	5501	5686	5871	6056	6241	6426	6611	6796	
48	6981	7166	7351	7536	7721	7906	8091	8275	8460	8645	
49	8830	9015	9200	9385	9570	9754	9939	0124	0309	0494	
2350	3710679	0863	1048	1233	1418	1603	1787	1972	2157	2342	
51	2526	2711	2896	3080	3265	3450	3635	3819	4004	4189	185
52	4373	4558	4742	4927	5112	5296	5481	5666	5850	6035	
53	6219	6404	6588	6773	6957	7142	7327	7511	7696	7880	
54	8065	8249	8434	8618	8802	8987	9171	9356	9540	9725	
55	9909	0094	0278	0462	0647	0831	1015	1200	1384	1569	
56	3721753	1937	2122	2306	2490	2674	2859	3043	3227	3412	
57	3596	3780	3964	4149	4333	4517	4701	4885	5070	5254	
58	5438	5622	5806	5991	6175	6359	6543	6727	6911	7095	
59	7279	7464	7648	7832	8016	8200	8384	8568	8752	8936	
2360	9120	9304	9488	9672	9856	0040	0224	0408	0592	0776	
Differ.	{ 187 186 185	Pt. Pte. { 19 37 56	{ 19 37 56	{ 19 37 56	{ 75 74 74	{ 94 93 93	{ 112 112 111	{ 131 130 130	{ 150 149 148	{ 168 167 167	

No.	0	1	2	3	4	5	6	7	8	9	D.
2361	3730960	1144	1328	1512	1696	1879	2063	2247	2431	2615	
62	2799	2983	3167	3350	3534	3718	3902	4086	4270	4453	184
63	4637	4821	5005	5189	5372	5556	5740	5924	6107	6291	
64	6475	6658	6842	7026	7210	7393	7577	7761	7944	8128	
65	8311	8495	8679	8862	9046	9230	9413	9597	9780	9964	
66	3740147	0331	0515	0698	0882	1065	1249	1432	1616	1799	
67	1983	2166	2350	2533	2716	2900	3083	3267	3450	3634	
68	3817	4000	4184	4367	4551	4734	4917	5101	5284	5467	
69	5651	5834	6017	6201	6384	6567	6750	6934	7117	7300	
2370	7483	7667	7850	8033	8216	8400	8583	8766	8949	9132	
71	9316	9499	9682	9865	0048	0231	0414	0598	0781	0964	183
72	3751147	1330	1513	1696	1879	062	2245	2428	2611	2794	
73	2977	3160	3343	3526	3709	3892	4075	4258	4441	4624	
74	4807	4990	5173	5356	5539	5722	5905	6088	6270	6453	
75	6636	6819	7002	7185	7368	7550	7733	7916	8099	8282	
76	8464	8647	8830	9013	9195	9378	9561	9744	9926	0109	
77	3760292	0475	0657	0840	1023	1205	1388	1571	1753	1936	
78	2119	2301	2484	2666	2849	3032	3214	3397	3579	3762	
79	3944	4127	4310	4492	4675	4857	5040	5222	5405	5587	
2380	5770	5952	6135	6317	6499	6682	6864	7047	7229	7412	182
81	7594	7776	7959	8141	8323	8506	8688	8871	9053	9235	
82	9418	9600	9782	9965	0147	0329	0511	0694	0876	1058	
83	3771240	1423	1605	1787	1969	2152	2334	2516	2698	2880	
84	3063	3245	3427	3609	3791	3973	4155	4338	4520	4702	
85	4884	5066	5248	5430	5612	5794	5976	6158	6340	6522	
86	6704	6886	7068	7250	7432	7614	7796	7978	8160	8343	
87	8524	8706	8888	9070	9252	9434	9616	9798	9979	0161	
88	3780343	0525	0707	0889	1071	1252	1434	1616	1798	1980	
89	2161	2343	2525	2707	2889	3070	3252	3434	3616	3797	181
2390	3979	4161	4342	4524	4706	4887	5069	5251	5432	5614	
91	5796	5977	6159	6341	6522	6704	6885	7067	7249	7430	
92	7612	7793	7975	8156	8338	8519	8701	8882	9064	9245	
93	9427	9608	9790	9971	0153	0334	0516	0697	0879	1060	
94	3791241	1423	1604	1786	1967	2148	2330	2511	2692	2874	
95	3055	3237	3418	3599	3780	3962	4143	4324	4506	4687	
96	4868	5049	5231	5412	5593	5774	5956	6137	6318	6499	
97	6680	6862	7043	7224	7405	7586	7767	7948	8130	8311	
98	8492	8673	8854	9035	9216	9397	9578	9759	9940	0121	
99	3800302	0484	0665	0846	1027	1208	1389	1570	1750	1931	180
2400	2112	2293	2474	2655	2836	3017	3198	3379	3560	3741	
01	3922	4102	4283	4464	4645	4826	5007	5188	5368	5549	
02	5730	5911	6092	6272	6453	6634	6815	6995	7176	7357	
03	7538	7718	7899	8080	8261	8441	8622	8803	8983	9164	
Differ.	184	Pro. Parte.	18	37	55	74	92	110	129	147	166
	183		18	37	55	73	92	110	128	146	165
	182		18	36	55	73	91	109	127	146	164
	181		18	36	54	72	91	109	127	145	163

No.	0	1	2	3	4	5	6	7	8	9	D.
2404	3809345	9525	9706	9887	0067	0248	0428	0609	0790	0970	180
05	3811151	1331	1512	1693	1873	2054	2234	2415	2595	2776	
06	2956	3137	3317	3498	3678	3859	4039	4220	4400	4580	
07	4761	4941	5122	5302	5483	5663	5843	6024	6204	6384	
08	6565	6745	6926	7106	7286	7467	7647	7827	8007	8188	
09	8368	8548	8729	8909	9089	9269	9450	9630	9810	9990	
2410	3820170	0351	0531	0711	0891	1071	1252	1432	1612	1792	
11	1972	2152	2332	2512	2693	2873	3053	3233	3413	3593	
12	3773	3953	4133	4313	4493	4673	4853	5033	5213	5393	
13	5573	5753	5933	6113	6293	6473	6653	6833	7013	7193	
14	7373	7553	7732	7912	8092	8272	8452	8632	8812	8992	179
15	9171	9351	9531	9711	9891	0070	0250	0430	0610	0790	
16	3830969	1149	1329	1509	1688	1868	2048	2227	2407	2587	
17	2767	2946	3126	3306	3485	3665	3844	4024	4204	4383	
18	4563	4743	4922	5102	5281	5461	5640	5820	6000	6179	
19	6359	6538	6718	6897	7077	7256	7436	7615	7795	7974	
2420	8154	8333	8513	8692	8871	9051	9230	9410	9589	9769	
21	9948	0127	0307	0486	0665	0845	1024	1203	1383	1562	
22	3841741	1921	2100	2279	2459	2638	2817	2996	3176	3355	
23	3534	3713	3893	4072	4251	4430	4609	4789	4968	5147	
24	5326	5505	5684	5864	6043	6222	6401	6580	6759	6938	178
25	7117	7297	7476	7655	7834	8013	8192	8371	8550	8729	
26	8908	9087	9266	9445	9624	9803	9982	0161	0340	0519	
27	3850698	0877	1056	1235	1413	1592	1771	1950	2129	2308	
28	2487	2666	2845	3023	3202	3381	3560	3739	3918	4096	
29	4275	4454	4633	4812	4990	5169	5348	5527	5705	5884	
2430	6063	6241	6420	6599	6778	6956	7135	7314	7492	7671	
31	7850	8028	8207	8386	8564	8743	8921	9100	9279	9457	
32	9636	9814	9993	0171	0350	0528	0707	0886	1064	1243	
33	3861421	1600	1778	1957	2135	2314	2492	2670	2849	3027	
34	3206	3384	3563	3741	3919	4098	4276	4455	4633	4811	177
35	4990	5168	5346	5525	5703	5881	6060	6238	6416	6595	
36	6773	6951	7129	7308	7486	7664	7842	8021	8199	8377	
37	8555	8733	8912	9090	9268	9446	9624	9803	9981	0159	
38	3870337	0515	0693	0871	1049	1228	1406	1584	1762	1940	
39	2118	2296	2474	2652	2830	3008	3186	3364	3542	3720	
2440	3898	4076	4254	4432	4610	4788	4966	5144	5322	5500	
41	5678	5856	6034	6212	6389	6567	6745	6923	7101	7279	
42	7457	7634	7812	7990	8168	8346	8524	8701	8879	9057	
43	9235	9412	9590	9768	9946	0123	0301	0479	0657	0834	
44	3881012	1190	1367	1545	1723	1900	2078	2256	2433	2611	176
45	2789	2966	3144	3321	3499	3677	3854	4032	4209	4387	
46	4565	4742	4920	5097	5275	5452	5630	5807	5985	6162	
47	6340	6517	6695	6872	7050	7227	7404	7582	7759	7937	
Differ.	180	Fr. Pa.	18	36	54	72	90	108	126	144	162
	179		18	36	54	72	90	107	125	143	161
	178		18	36	53	71	89	107	125	142	160

No.	0	1	2	3	4	5	6	7	8	9	D.
2448	3888114	8292	8469	8646	8824	9001	9178	9356	9533	9711	
49	9888	0065	0243	0420	0597	0774	0952	1129	1306	1484	
2450	3891061	1838	2015	2193	2370	2547	2724	2902	3079	3256	
51	3433	3610	3787	3965	4142	4319	4496	4673	4850	5028	
52	5205	5382	5559	5736	5913	6090	6267	6444	6621	6798	177
53	6975	7153	7330	7507	7684	7861	8038	8215	8392	8569	
54	8746	8923	9100	9276	9453	9630	9807	9984	0161	0338	
55	3900515	0692	0869	1046	1223	1399	1576	1753	1930	2107	
56	2284	2460	2637	2814	2991	3168	3344	3521	3698	3875	
57	4052	4228	4405	4582	4759	4935	5112	5289	5465	5642	
58	5819	5995	6172	6349	6525	6702	6879	7055	7232	7409	
59	7585	7762	7939	8115	8292	8468	8645	8821	8998	9175	
2460	9351	9528	9704	9881	0057	0234	0410	0587	0763	0940	
61	3911116	1293	1469	1646	1822	1998	2175	2351	2528	2704	
62	2880	3057	3233	3410	3586	3762	3939	4115	4291	4468	
63	4644	4820	4997	5173	5349	5526	5702	5878	6055	6231	
64	6407	6583	6760	6936	7112	7288	7464	7641	7817	7993	
65	8169	8345	8522	8698	8874	9050	9226	9402	9578	9755	
66	9931	0107	0283	0459	0635	0811	0987	1163	1339	1515	176
67	3921691	1868	2044	2220	2396	2572	2748	2924	3100	3276	
68	3452	3628	3803	3979	4155	4331	4507	4683	4859	5035	
69	5211	5387	5563	5739	5914	6090	6266	6442	6618	6794	
2470	6970	7145	7321	7497	7673	7849	8024	8200	8376	8552	
71	8727	8903	9079	9255	9430	9606	9782	9958	0133	0309	
72	3930485	0660	0836	1012	1187	1363	1539	1714	1890	2066	
73	2241	2417	2592	2768	2944	3119	3295	3470	3646	3821	
74	3997	4172	4348	4524	4699	4875	5050	5226	5401	5577	
75	5752	5928	6103	6278	6454	6629	6805	6980	7156	7331	
76	7506	7682	7857	8033	8208	8383	8559	8734	8909	9085	
77	9260	9435	9611	9786	9961	0137	0312	0487	0662	0838	
78	3941013	1188	1364	1539	1714	1889	2064	2240	2415	2590	
79	2765	2940	3116	3291	3466	3641	3816	3991	4167	4342	
2480	4517	4692	4867	5042	5217	5392	5567	5742	5918	6093	175
81	6268	6443	6618	6793	6968	7143	7318	7493	7668	7843	
82	8018	8193	8368	8543	8718	8893	9068	9242	9417	9592	
83	9767	9942	0117	0292	0467	0642	0817	0991	1166	1341	
84	3951516	1691	1866	2040	2215	2390	2565	2740	2914	3089	

No.	0	1	2	3	4	5	6	7	8	9	D.
2492	3965480	5655	5829	6003	6177	6352	6526	6700	6874	7049	
93	7223	7397	7571	7745	7920	8094	8268	8442	8616	8790	
94	8964	9139	9313	9487	9661	9835	0009	0183	0357	0531	174
95	3970705	0880	1054	1228	1402	1576	1750	1924	2098	2272	
96	2446	2620	2794	2968	3142	3316	3490	3664	3838	4011	
97	4185	4359	4533	4707	4881	5055	5229	5403	5577	5750	
98	5924	6098	6272	6446	6620	6794	6967	7141	7315	7489	
99	7663	7836	8010	8184	8358	8531	8705	8879	9053	9226	
2500	9400	9574	9748	9921	0095	0269	0442	0616	0790	0963	
01	3981137	1311	1484	1658	1831	2005	2179	2352	2526	2699	
02	2873	3047	3220	3394	3567	3741	3914	4088	4261	4435	
03	4608	4782	4956	5129	5302	5476	5649	5823	5996	6170	
04	6343	6517	6690	6864	7037	7210	7384	7557	7731	7904	
05	8077	8251	8424	8597	8771	8944	9117	9291	9464	9637	
06	9811	9984	0157	0331	0504	0677	0850	1024	1197	1370	
07	3991543	1717	1890	2063	2236	2409	2583	2756	2929	3102	
08	3275	3448	3622	3795	3968	4141	4314	4487	4660	4834	
09	5007	5180	5353	5526	5699	5872	6045	6218	6391	6564	173
2510	6737	6910	7083	7256	7429	7602	7775	7948	8121	8294	
11	8467	8640	8813	8986	9159	9332	9505	9678	9851	0023	
12	4000196	0369	0542	0715	0888	1061	1234	1406	1579	1752	
13	1925	2098	2271	2443	2616	2789	2962	3134	3307	3480	
14	3653	3825	3998	4171	4344	4516	4689	4862	5035	5207	
15	5380	5553	5725	5898	6071	6243	6416	6588	6761	6934	
16	7106	7279	7452	7624	7797	7969	8142	8314	8487	8660	
17	8832	9005	9177	9350	9522	9695	9867	0040	0212	0385	
18	4010557	0730	0902	1075	1247	1420	1592	1764	1937	2109	
19	2282	2454	2626	2799	2971	3144	3316	3488	3661	3833	
2520	4015	4178	4350	4522	4695	4867	5039	5212	5384	5556	
21	5728	5901	6073	6245	6417	6590	6762	6934	7106	7279	
22	7451	7623	7795	7967	8140	8312	8484	8656	8828	9000	
23	9173	9345	9517	9689	9861	0033	0205	0377	0549	0721	
24	4020894	1066	1238	1410	1582	1754	1926	2098	2270	2442	172
25	2614	2786	2958	3130	3302	3474	3646	3818	3990	4162	
26	4333	4505	4677	4849	5021	5193	5365	5537	5709	5881	
27	6052	6224	6396	6568	6740	6912	7083	7255	7427	7599	
28	7771	7942	8114	8286	8458	8630	8801	8973	9145	9317	
29	9488	9660	9832	0003	0175	0347	0519	0690	0862	1034	
2530	4031205	1377	1549	1720	1892	2063	2235	2407	2578	2750	
31	2921	3093	3265	3436	3608	3779	3951	4122	4294	4465	
32	4637	4809	4980	5152	5323	5495	5666	5838	6009	6180	
33	6352	6523	6695	6866	7038	7209	7381	7552	7723	7895	
34	8066	8237	8409	8580	8752	8923	9094	9266	9437	9608	
35	9780	9951	0122	0294	0465	0636	0807	0979	1150	1321	
Differ.	174	173	172	171	170	169	168	167	166	165	
	174	173	172	171	170	169	168	167	166	165	
	174	173	172	171	170	169	168	167	166	165	

No.	0	1	2	3	4	5	6	7	8	9	D.	
2580	4116197	6365	6534	6702	6870	7039	7207	7375	7544	7712	168	
81	7880	8048	8217	8385	8553	8721	8890	9058	9226	9394		
82	9562	9731	9899	0067	0235	0403	0571	0740	0908	1076		
83	4121244	1412	1580	1748	1917	2085	2253	2421	2589	2757		
84	2925	3093	3261	3429	3597	3765	3933	4101	4269	4437		
85	4605	4773	4941	5109	5277	5445	5613	5781	5949	6117		
86	6285	6453	6621	6789	6957	7125	7293	7461	7629	7796		
87	7964	8132	8300	8468	8636	8804	8971	9139	9307	9475		
88	9643	9811	9978	0146	0314	0482	0649	0817	0985	1153		
89	4131321	1488	1656	1824	1991	2159	2327	2495	2662	2830		
2590	2998	3165	3333	3501	3668	3836	4004	4171	4339	4507	167	
91	4674	4842	5009	5177	5345	5512	5680	5847	6015	6182		
92	6350	6518	6685	6853	7020	7188	7355	7523	7690	7858		
93	8025	8193	8360	8528	8695	8863	9030	9197	9365	9532		
94	9700	9867	0035	0202	0369	0537	0704	0872	1039	1206		
95	4141374	1541	1708	1876	2043	2210	2378	2545	2712	2880		
96	3047	3214	3381	3549	3716	3883	4051	4218	4385	4552		
97	4719	4887	5054	5221	5388	5556	5723	5890	6057	6224		
98	6391	6559	6726	6893	7060	7227	7394	7561	7729	7896		
99	8063	8230	8397	8564	8731	8898	9065	9232	9399	9566		
2600	9733	9901	0068	0235	0402	0569	0736	0903	1070	1237	166	
01	4151404	1570	1737	1904	2071	2238	2405	2572	2739	2906		
02	3073	3240	3407	3574	3741	3907	4074	4241	4408	4575		
03	4742	4909	5075	5242	5409	5576	5743	5909	6076	6243		
04	6410	6577	6743	6910	7077	7244	7410	7577	7744	7911		
05	8077	8244	8411	8577	8744	8911	9077	9244	9411	9577		
06	9744	9911	0077	0244	0411	0577	0744	0911	1077	1244		
07	4161410	1577	1743	1910	2077	2243	2410	2576	2743	2909		
08	3076	3242	3409	3575	3742	3908	4075	4241	4408	4574		
09	4741	4907	5074	5240	5407	5573	5739	5906	6072	6239		
2610	6405	6571	6738	6904	7071	7237	7403	7570	7736	7902	166	
11	8069	8235	8401	8568	8734	8900	9067	9233	9399	9565		
12	9732	9898	0064	0231	0397	0563	0729	0895	1062	1228		
13	4171394	1560	1726	1893	2059	2225	2391	2557	2724	2890		
14	3056	3222	3388	3554	3720	3886	4053	4219	4385	4551		
15	4717	4883	5049	5215	5381	5547	5713	5879	6045	6211		
16	6377	6543	6709	6875	7041	7207	7373	7539	7705	7871		
17	8037	8203	8369	8535	8701	8867	9033	9199	9365	9531		
18	9696	9862	0028	0194	0360	0526	0692	0857	1023	1189		
19	4181355	1521	1687	1852	2018	2184	2350	2516	2681	2847		
2620	3018	3179	3344	3510	3676	3842	4007	4173	4339	4505	166	
21	4670	4836	5002	5167	5333	5499	5664	5830	5996	6161		
22	6327	6493	6658	6824	6989	7155	7321	7486	7652	7817		
23	7983	8148	8314	8480	8645	8811	8976	9142	9307	9473		
Differ.	168	167	166	17	34	50	67	84	101	118	134	151
	167	166	165	17	33	50	67	84	100	117	134	150
	166	165	164	17	33	50	66	83	100	116	133	149

No.	0	1	2	3	4	5	6	7	8	9	D.
2624	4189638	9804	9969	0135	0300	0466	0631	0797	0962	1128	165
25	4191293	1459	1624	1789	1955	2120	2286	2451	2616	2782	
26	2947	3113	3278	3443	3609	3774	3939	4105	4270	4435	
27	4601	4766	4931	5097	5262	5427	5593	5758	5923	6088	
28	6254	6419	6584	6749	6915	7080	7245	7410	7575	7741	
29	7906	8071	8236	8401	8567	8732	8897	9062	9227	9392	
2630	9557	9723	9888	0053	0218	0383	0548	0713	0878	1043	
31	4201208	1374	1539	1704	1869	2034	2199	2364	2529	2694	
32	2859	3024	3189	3354	3519	3684	3849	4014	4179	4344	
33	4509	4674	4838	5003	5168	5333	5498	5663	5828	5993	
34	6158	6323	6487	6652	6817	6982	7147	7312	7477	7641	164
35	7806	7971	8136	8301	8465	8630	8795	8960	9125	9289	
36	9454	9619	9784	9948	0112	0278	0442	0607	0772	0937	
37	4211101	1266	1431	1595	1760	1925	2089	2254	2419	2583	
38	2748	2913	3077	3242	3406	3571	3736	3900	4065	4229	
39	4394	4558	4723	4888	5052	5217	5381	5546	5710	5875	
2640	6039	6204	6368	6533	6697	6862	7026	7191	7355	7520	
41	7684	7848	8013	8177	8342	8506	8671	8835	8999	9164	
42	9328	9493	9657	9821	9986	0150	0314	0479	0643	0807	
43	4220972	1136	1300	1465	1629	1793	1957	2122	2286	2450	163
44	2615	2779	2943	3107	3271	3436	3600	3764	3928	4093	
45	4257	4421	4585	4749	4913	5078	5242	5406	5570	5734	
46	5898	6063	6227	6391	6555	6719	6883	7047	7211	7375	
47	7539	7703	7868	8032	8196	8360	8524	8688	8852	9016	
48	9180	9344	9508	9672	9836	0000	0164	0328	0492	0656	
49	4230820	0984	1147	1311	1475	1639	1803	1967	2131	2295	
2650	2459	2623	2786	2950	3114	3278	3442	3606	3770	3933	
51	4097	4261	4425	4589	4753	4916	5080	5244	5408	5571	
52	5735	5899	6063	6226	6390	6554	6718	6881	7045	7209	
53	7372	7536	7700	7864	8027	8191	8355	8518	8682	8846	
54	9009	9173	9336	9500	9664	9827	9991	0154	0318	0482	
55	4240645	0809	0972	1136	1300	1463	1627	1790	1954	2117	163
56	2281	2444	2608	2771	2935	3098	3262	3425	3589	3752	
57	3916	4079	4242	4406	4569	4733	4896	5060	5223	5386	
58	5550	5713	5877	6040	6203	6367	6530	6693	6857	7020	
59	7183	7347	7510	7673	7837	8000	8163	8327	8490	8653	
2660	8816	8980	9143	9306	9469	9633	9796	9959	0122	0286	
61	4250449	0612	0775	0938	1102	1265	1428	1591	1754	1917	
62	2081	2244	2407	2570	2733	2896	3059	3222	3385	3549	
63	3712	3875	4038	4201	4364	4527	4690	4853	5016	5179	
64	5342	5505	5668	5831	5994	6157	6320	6483	6646	6809	
65	6972	7135	7298	7461	7624	7787	7950	8113	8276	8439	
66	8601	8764	8927	9090	9253	9416	9579	9742	9904	0067	
67	4260230	0393	0556	0719	0881	1044	1207	1370	1533	1695	
Difer.	165	164	163	162	161	160	159	158	157	156	
Pr.	17	16	16	15	15	14	14	13	13	12	
Pr.	33	33	33	32	32	31	31	30	30	29	
Pr.	50	49	49	48	48	47	47	46	46	45	
Pr.	66	66	65	65	64	64	63	63	62	61	
Pr.	83	82	82	81	81	80	80	79	79	78	
Pr.	99	98	98	97	97	96	96	95	95	94	
Pr.	116	115	114	113	113	112	112	111	111	110	
Pr.	132	131	130	130	129	129	128	128	127	126	
Pr.	149	148	147	147	146	146	145	145	144	143	

No.	0	1	2	3	4	5	6	7	8	9	D.
2713	4334498	4658	4818	4978	5138	5298	5458	5618	5778	5938	160
14	6098	6258	6418	6578	6738	6898	7058	7218	7378	7538	
15	7698	7858	8018	8178	8338	8498	8658	8818	8978	9138	
16	9298	9458	9617	9777	9937	0097	0257	0417	0577	0737	
17	4340896	1056	1216	1376	1536	1696	1855	2015	2175	2335	
18	2495	2654	2814	2974	3134	3293	3453	3613	3773	3932	
19	4092	4252	4412	4571	4731	4891	5050	5210	5370	5529	
2720	5689	5849	6008	6168	6328	6487	6647	6807	6966	7126	
21	7285	7445	7605	7764	7924	8083	8243	8403	8562	8722	
22	8881	9041	9200	9360	9519	9679	9838	9998	0157	0317	
23	4350476	0636	0795	0955	1114	1274	1433	1593	1752	1912	159
24	2071	2230	2390	2549	2709	2868	3028	3187	3346	3506	
25	3665	3824	3984	4143	4303	4462	4621	4781	4940	5099	
26	5259	5418	5577	5736	5896	6055	6214	6374	6533	6692	
27	6851	7011	7170	7329	7488	7648	7807	7966	8125	8284	
28	8444	8603	8762	8921	9080	9240	9399	9558	9717	9876	
29	4360035	0194	0354	0513	0672	0831	0990	1149	1308	1467	
2730	1626	1786	1945	2104	2263	2422	2581	2740	2899	3058	
31	3217	3376	3535	3694	3853	4012	4171	4330	4489	4648	
32	4807	4966	5125	5284	5443	5602	5761	5920	6078	6237	
33	6396	6555	6714	6873	7032	7191	7350	7509	7667	7826	158
34	7985	8144	8303	8462	8620	8779	8938	9097	9256	9415	
35	9573	9732	9891	0050	0208	0367	0526	0685	0843	1002	
36	4371161	1320	1478	1637	1796	1955	2113	2272	2431	2589	
37	2748	2907	3065	3224	3383	3541	3700	3859	4017	4176	
38	4334	4493	4652	4810	4969	5127	5286	5445	5603	5762	
39	5920	6079	6237	6396	6555	6713	6872	7030	7189	7347	
2740	7506	7664	7823	7981	8140	8298	8457	8615	8773	8932	
41	9090	9249	9407	9566	9724	9883	0041	0199	0358	0516	
42	4380675	0833	0991	1150	1308	1466	1625	1783	1941	2100	
43	2258	2416	2575	2733	2891	3050	3208	3366	3525	3683	157
44	3841	3999	4158	4316	4474	4632	4791	4949	5107	5265	
45	5423	5582	5740	5898	6056	6214	6373	6531	6689	6847	
46	7005	7163	7322	7480	7638	7796	7954	8112	8270	8428	
47	8587	8745	8903	9061	9219	9377	9535	9693	9851	0009	
48	4390167	0325	0483	0641	0799	0957	1115	1273	1431	1589	
49	1747	1905	2063	2221	2379	2537	2695	2853	3011	3169	
2750	3327	3485	3643	3801	3959	4116	4274	4432	4590	4748	
51	4906	5064	5222	5379	5537	5695	5853	6011	6169	6326	
52	6484	6642	6800	6958	7115	7273	7431	7589	7747	7904	
53	8062	8220	8378	8535	8693	8851	9009	9166	9324	9482	156
54	9639	9797	9955	0112	0270	0428	0585	0743	0901	1058	
55	4401216	1374	1531	1689	1847	2004	2162	2319	2477	2635	
56	2792	2950	3107	3265	3422	3580	3738	3895	4053	4210	
Diff.	160	159	158	157	156	155	154	153	152	151	
Pr. P.	16	32	48	64	80	96	112	128	144	160	
	16	32	48	64	80	96	111	127	143	159	
	16	32	47	63	79	95	111	126	142	158	

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2757	4404368	4525	4683	4840	4998	5155	5313	5470	5628	5785	157
58	5943	6100	6258	6415	6572	6730	6887	7045	7202	7360	
59	7517	7674	7832	7989	8147	8304	8461	8619	8776	8933	
2760	9091	9248	9406	9563	9720	9878	0035	0192	0349	0507	
61	4410664	0821	0979	1136	1293	1450	1608	1765	1922	2080	
62	2237	2394	2551	2708	2866	3023	3180	3337	3494	3652	
63	3809	3966	4123	4280	4438	4595	4752	4909	5066	5223	
64	5380	5538	5695	5852	6009	6166	6323	6480	6637	6794	
65	6951	7108	7265	7423	7580	7737	7894	8051	8208	8365	
66	8522	8679	8836	8993	9150	9307	9464	9621	9778	9935	
67	4420092	0249	0405	0562	0719	0876	1033	1190	1347	1504	158
68	1661	1818	1975	2132	2288	2445	2602	2759	2916	3073	
69	3230	3386	3543	3700	3857	4014	4171	4327	4484	4641	
2770	4798	4954	5111	5268	5425	5582	5738	5895	6052	6209	
71	6365	6522	6679	6835	6992	7149	7306	7462	7619	7776	
72	7932	8089	8246	8402	8559	8716	8872	9029	9185	9342	
73	9499	9655	9812	9969	0125	0282	0438	0595	0751	0908	
74	4431065	1221	1378	1534	1691	1847	2004	2160	2317	2473	
75	2630	2786	2943	3099	3256	3412	3569	3725	3882	4038	
76	4195	4351	4507	4664	4820	4977	5133	5290	5446	5602	159
77	5759	5915	6072	6228	6384	6541	6697	6853	7010	7166	
78	7322	7479	7635	7791	7948	8104	8260	8417	8573	8729	
79	8885	9042	9198	9354	9511	9667	9823	9979	0136	0292	
2780	4440448	0604	0760	0917	1073	1229	1385	1541	1698	1854	
81	2010	2166	2322	2478	2635	2791	2947	3103	3259	3415	
82	3571	3727	3883	4040	4196	4352	4508	4664	4820	4976	
83	5132	5288	5444	5600	5756	5912	6068	6224	6380	6536	
84	6692	6848	7004	7160	7316	7472	7628	7784	7940	8096	
85	8252	8408	8564	8720	8876	9032	9188	9343	9499	9655	160
86	9811	9967	0123	0279	0435	0590	0746	0902	1058	1214	
87	4451370	1526	1681	1837	1993	2149	2305	2460	2616	2772	
88	2928	3083	3239	3395	3551	3706	3862	4018	4174	4329	
89	4485	4641	4797	4952	5108	5264	5419	5575	5731	5886	
2790	6042	6198	6353	6509	6665	6820	6976	7132	7287	7443	
91	7598	7754	7910	8065	8221	8376	8532	8687	8843	8999	
92	9154	9310	9465	9621	9776	9932	0087	0243	0398	0554	
93	4460709	0865	1020	1176	1331	1487	1642	1798	1953	2109	
94	2264	2419	2575	2730	2886	3041	3197	3352	3507	3663	161
95	3818	3974	4129	4284	4440	4595	4750	4906	5061	5216	
96	5372	5527	5682	5838	5993	6148	6304	6459	6614	6769	
97	6925	7080	7235	7390	7546	7701	7856	8011	8167	8322	
98	8477	8632	8788	8943	9098	9253	9408	9563	9719	9874	
99	4470029	0184	0339	0494	0650	0805	0960	1115	1270	1425	
2800	1580	1735	1891	2046	2201	2356	2511	2666	2821	2976	
Differ.	157	16	31	47	63	79	94	110	126	141	
	156	16	31	47	63	78	94	109	125	140	
	155	16	31	47	62	78	93	109	124	140	

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2801	4478131	3286	3441	3596	3751	3906	4061	4216	4371	4526	154
02	4681	4836	4991	5146	5301	5456	5611	5766	5921	6076	
03	6231	6386	6541	6696	6851	7006	7161	7315	7470	7625	
04	7780	7935	8090	8245	8400	8554	8709	8864	9019	9174	
05	9329	9483	9638	9793	9948	0103	0258	0412	0567	0722	
06	4480877	1031	1186	1341	1496	1650	1805	1960	2115	2269	
07	2424	2579	2734	2888	3043	3198	3352	3507	3662	3816	
08	3971	4126	4280	4435	4590	4744	4899	5054	5208	5363	
09	5517	5672	5827	5981	6136	6290	6445	6600	6754	6909	
2810	7063	7218	7372	7527	7681	7836	7990	8145	8299	8454	
11	8608	8763	8917	9072	9226	9381	9535	9690	9844	9999	
12	4490153	0308	0462	0616	0771	0925	1080	1234	1389	1543	
13	1697	1852	2006	2160	2315	2469	2624	2778	2932	3087	
14	3241	3395	3550	3704	3858	4013	4167	4321	4475	4630	
15	4784	4938	5093	5247	5401	5555	5710	5864	6018	6172	
16	6327	6481	6635	6789	6943	7098	7252	7406	7560	7714	
17	7868	8023	8177	8331	8485	8639	8793	8948	9102	9256	
18	9410	9564	9718	9872	0026	0180	0334	0489	0643	0797	
19	4500951	1105	1259	1413	1567	1721	1875	2029	2183	2337	
2820	2491	2645	2799	2953	3107	3261	3415	3569	3723	3877	153
21	4031	4185	4339	4493	4647	4801	4954	5108	5262	5416	
22	5570	5724	5878	6032	6186	6340	6493	6647	6801	6955	
23	7109	7263	7416	7570	7724	7878	8032	8186	8339	8493	
24	8647	8801	8954	9108	9262	9416	9570	9723	9877	0031	
25	4510185	0338	0492	0646	0799	0953	1107	1261	1414	1568	
26	1722	1875	2029	2183	2336	2490	2644	2797	2951	3104	
27	3258	3412	3565	3719	3873	4026	4180	4333	4487	4640	
28	4794	4948	5101	5255	5408	5562	5715	5869	6022	6176	
29	6329	6483	6636	6790	6943	7097	7250	7404	7557	7711	
2830	7864	8018	8171	8325	8478	8632	8785	8938	9092	9245	
31	9399	9552	9705	9859	0012	0166	0319	0472	0626	0779	
32	4520932	1066	1239	1393	1546	1699	1853	2006	2159	2312	
33	2466	2619	2772	2926	3079	3232	3385	3539	3692	3845	
34	3998	4152	4305	4458	4611	4765	4918	5071	5224	5377	
35	5531	5684	5837	5990	6143	6297	6450	6603	6756	6909	
36	7062	7215	7369	7522	7675	7828	7981	8134	8287	8440	
37	8593	8746	8900	9053	9206	9359	9512	9665	9818	9971	
38	4530124	0277	0430	0583	0736	0889	1042	1195	1348	1501	
39	1654	1807	1960	2113	2266	2419	2572	2725	2878	3030	
2840	3183	3336	3489	3642	3795	3948	4101	4254	4407	4559	
41	4712	4865	5018	5171	5324	5477	5629	5782	5935	6088	
42	6241	6394	6546	6699	6852	7005	7158	7310	7463	7616	
43	7769	7921	8074	8227	8380	8532	8685	8838	8990	9143	
44	9296	9449	9601	9754	9907	0059	0212	0365	0517	0670	
45	4540823	0975	1128	1281	1433	1586	1739	1891	2044	2196	
Diff.	{ 154	{ 15	{ 31	{ 46	{ 62	{ 77	{ 92	{ 108	{ 123	{ 139	
	{ 153	{ 15	{ 31	{ 46	{ 61	{ 77	{ 92	{ 107	{ 122	{ 138	

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2846	4542349	2502	2654	2807	2959	3112	3264	3417	3570	3722	
47	3875	4027	4180	4332	4485	4637	4790	4942	5095	5247	
48	5400	5552	5705	5857	6010	6162	6315	6467	6620	6772	
49	6924	7077	7229	7382	7534	7687	7839	7991	8144	8296	
2850	8449	8601	8753	8906	9058	9210	9363	9515	9668	9820	
51	9972	0125	0277	0429	0581	0734	0886	1038	1191	1343	
52	4551495	1647	1800	1952	2104	2257	2409	2561	2713	2865	
53	3018	3170	3322	3474	3627	3779	3931	4083	4235	4388	
54	4540	4692	4844	4996	5148	5300	5453	5605	5757	5909	
55	6061	6213	6365	6517	6670	6822	6974	7126	7278	7430	
56	7582	7734	7886	8038	8190	8342	8494	8646	8798	8950	
57	9102	9254	9406	9558	9710	9862	0014	0166	0318	0470	152
58	4560632	0774	0926	1078	1230	1382	1534	1686	1838	1990	
59	2142	2293	2445	2597	2749	2901	3053	3205	3357	3508	
2860	3660	3812	3964	4116	4268	4420	4571	4723	4875	5027	
61	5179	5330	5482	5634	5786	5938	6089	6241	6393	6545	
62	6696	6848	7000	7152	7303	7455	7607	7758	7910	8062	
63	8213	8365	8517	8669	8820	8972	9124	9275	9427	9578	
64	9730	9882	0033	0185	0337	0488	0640	0791	0943	1095	
65	4571246	1398	1549	1701	1853	2004	2156	2307	2459	2610	
66	2762	2913	3065	3216	3368	3519	3671	3822	3974	4125	
67	4277	4428	4580	4731	4883	5034	5186	5337	5489	5640	
68	5791	5943	6094	6246	6397	6549	6700	6851	7003	7154	
69	7305	7457	7608	7760	7911	8062	8214	8365	8516	8668	
2870	8819	8970	9122	9273	9424	9576	9727	9878	0029	0181	
71	4580332	0483	0634	0786	0937	1088	1239	1391	1542	1693	
72	1844	1996	2147	2298	2449	2600	2752	2903	3054	3205	
73	3356	3507	3659	3810	3961	4112	4263	4414	4565	4717	
74	4868	5019	5170	5321	5472	5623	5774	5925	6076	6227	
75	6378	6530	6681	6832	6983	7134	7285	7436	7587	7738	
76	7889	8040	8191	8342	8493	8644	8795	8946	9097	9248	151
77	9399	9550	9701	9851	0002	0153	0304	0455	0606	0757	
78	4590908	1009	1210	1361	1511	1662	1813	1964	2115	2266	
79	2417	2567	2718	2869	3020	3171	3322	3472	3623	3774	
2880	3925	4076	4226	4377	4528	4679	4830	4980	5131	5282	
81	5433	5583	5734	5885	6036	6186	6337	6488	6638	6789	
82	6940	7090	7241	7392	7542	7693	7844	7994	8145	8296	
83	8446	8597	8748	8898	9049	9200	9350	9501	9651	9802	
84	9953	0103	0254	0404	0555	0705	0856	1007	1157	1308	
85	4601458	1609	1759	1910	2060	2211	2361	2512	2662	2813	
86	2963	3114	3264	3415	3565	3716	3866	4017	4167	4317	
87	4468	4618	4769	4919	5070	5220	5370	5521	5671	5822	
88	5972	6122	6273	6423	6573	6724	6874	7024	7175	7325	
89	7475	7626	7776	7926	8077	8227	8377	8528	8678	8828	
2890	8978	9129	9279	9429	9579	9730	9880	0030	0180	0331	
Div	152	15	30	45	61	76	91	106	122	137	
	151	15	30	45	60	76	91	106	121	136	

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92	1983	2133	2283	2433	2584	2734	2884	3034	3184	3334	
93	3484	3634	3785	3935	4085	4235	4385	4535	4685	4835	
94	4985	5135	5285	5435	5585	5736	5886	6036	6186	6336	
95	6486	6636	6786	6936	7086	7236	7386	7536	7686	7836	
96	7986	8136	8285	8435	8585	8735	8885	9035	9185	9335	150
97	9485	9635	9785	9935	0085	0234	0384	0534	0684	0834	
98	4620984	1134	1284	1433	1583	1733	1883	2033	2183	2332	
99	2482	2632	2782	2932	3081	3231	3381	3531	3680	3830	
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01	5477	5627	5777	5926	6076	6226	6375	6525	6675	6824	
02	6974	7124	7273	7423	7573	7722	7872	8022	8171	8321	
03	8470	8620	8770	8919	9069	9218	9368	9517	9667	9817	
04	9966	0116	0265	0415	0564	0714	0863	1013	1162	1312	
05	4631461	1611	1760	1910	2059	2209	2358	2508	2657	2807	
06	2956	3106	3255	3404	3554	3703	3853	4002	4152	4301	
07	4450	4600	4749	4898	5048	5197	5347	5496	5645	5795	
08	5944	6093	6243	6392	6541	6691	6840	6989	7139	7288	
09	7437	7587	7736	7885	8034	8184	8333	8482	8631	8781	
2910	8930	9079	9228	9378	9527	9676	9825	9974	0124	0273	
11	4640422	0571	0720	0870	1019	1168	1317	1466	1615	1765	
12	1914	2063	2212	2361	2510	2659	2808	2958	3107	3256	
13	3405	3554	3703	3852	4001	4150	4299	4448	4597	4746	149
14	4895	5045	5194	5343	5492	5641	5790	5939	6088	6237	
15	6386	6535	6684	6833	6981	7130	7279	7428	7577	7726	
16	7875	8024	8173	8322	8471	8620	8769	8918	9067	9215	
17	9364	9513	9662	9811	9960	0109	0258	0406	0555	0704	
18	4650853	1002	1151	1299	1448	1597	1746	1895	2043	2192	
19	2341	2490	2639	2787	2936	3085	3234	3382	3531	3680	
2920	3829	3977	4126	4275	4423	4572	4721	4870	5018	5167	
21	5316	5464	5613	5762	5910	6059	6208	6356	6505	6653	
22	6802	6951	7099	7248	7397	7545	7694	7842	7991	8140	
23	8288	8437	8585	8734	8882	9031	9180	9328	9477	9625	
24	9774	9922	0071	0219	0368	0516	0665	0813	0962	1110	
25	4661369	1407	1556	1704	1853	2001	2149	2298	2446	2595	
26	2743	2892	3040	3188	3337	3485	3634	3782	3930	4079	
27	4227	4376	4524	4672	4821	4969	5117	5266	5414	5562	
28	5711	5859	6007	6156	6304	6452	6601	6749	6897	7045	
29	7194	7342	7490	7639	7787	7935	8083	8232	8380	8528	
2930	8676	8824	8973	9121	9269	9417	9565	9714	9862	0010	148
31	4670158	0306	0455	0603	0751	0899	1047	1195	1343	1492	
32	1640	1788	1936	2084	2232	2380	2528	2676	2824	2973	
33	3121	3269	3417	3565	3713	3861	4009	4157	4305	4453	
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82	5076	5222	5368	5513	5659	5805	5950	6096	6241	6387	
83	6533	6678	6824	6969	7115	7260	7406	7552	7697	7843	
84	7988	8184	8279	8425	8570	8716	8861	9007	9152	9298	
85	9448	9589	9734	9880	0025	0171	0316	0462	0607	0753	
86	4750898	1043	1189	1334	1480	1625	1771	1916	2061	2207	
87	2352	2498	2643	2788	2934	3079	3225	3370	3515	3661	
88	3806	3951	4097	4242	4387	4533	4678	4823	4969	5114	
89	5259	5404	5550	5695	5840	5986	6131	6276	6421	6567	
2990	6712	6857	7002	7148	7293	7438	7583	7729	7874	8019	
91	8164	8309	8455	8600	8745	8890	9035	9180	9326	9471	
92	9616	9761	9906	0051	0196	0342	0487	0632	0777	0922	
93	4761067	1212	1357	1502	1648	1793	1938	2083	2228	2373	145
94	2518	2663	2808	2953	3098	3243	3388	3533	3678	3823	
95	3968	4113	4258	4403	4548	4693	4838	4983	5128	5273	
96	5418	5563	5708	5853	5998	6143	6288	6433	6578	6723	
97	6867	7012	7157	7302	7447	7592	7737	7882	8027	8171	
98	8316	8461	8606	8751	8896	9041	9185	9330	9475	9620	
99	9765	9909	0054	0199	0344	0489	0633	0778	0923	1068	
3000	4771213	1357	1502	1647	1792	1936	2081	2226	2371	2515	
01	2660	2805	2949	3094	3239	3383	3528	3673	3818	3962	
02	4107	4252	4396	4541	4686	4830	4975	5119	5264	5409	
03	5553	5698	5843	5987	6132	6276	6421	6566	6710	6855	
04	6999	7144	7288	7433	7578	7722	7867	8011	8156	8300	
05	8445	8589	8734	8878	9023	9167	9312	9456	9601	9745	
06	9890	0034	0179	0323	0468	0612	0757	0901	1045	1190	
07	4781334	1479	1623	1768	1912	2056	2201	2345	2490	2634	
08	2778	2923	3067	3211	3356	3500	3645	3789	3933	4078	
09	4222	4366	4511	4655	4799	4943	5088	5232	5376	5521	
3010	5665	5809	5954	6098	6242	6386	6531	6675	6819	6963	
11	7108	7252	7396	7540	7684	7829	7973	8117	8261	8405	144
12	8550	8694	8838	8982	9126	9271	9415	9559	9703	9847	
13	9991	0135	0280	0424	0568	0712	0856	1000	1144	1288	
14	4791432	1577	1721	1865	2009	2153	2297	2441	2585	2729	
15	2873	3017	3161	3305	3449	3593	3737	3881	4025	4169	
16	4313	4457	4601	4745	4889	5033	5177	5321	5465	5609	
17	5753	5897	6041	6185	6329	6473	6617	6761	6905	7048	
18	7192	7336	7480	7624	7768	7912	8056	8200	8343	8487	
19	8631	8775	8919	9063	9207	9350	9494	9638	9782	9925	
3020	4800089	0813	0357	0501	0645	0788	0932	1076	1220	1363	
21	1507	1651	1795	1939	2083	2226	2370	2513	2657	2801	
22	2945	3088	3232	3376	3519	3663	3807	3950	4094	4238	
23	4381	4525	4669	4812	4956	5100	5243	5387	5531	5674	
24	5818	5961	6105	6249	6392	6536	6679	6823	6967	7110	
Dir	145	144	15	29	44	58	73	87	102	116	131
			14	29	43	58	72	86	101	115	130

No.	0	1	2	3	4	5	6	7	8	9	D.
3025	4807254	7897	7541	7684	7828	7972	8115	8259	8402	8546	
26	8689	8833	8976	9120	9263	9407	9550	9694	9837	9981	
27	4810124	0268	0411	0555	0698	0842	0985	1128	1272	1415	
28	1559	1702	1846	1989	2132	2276	2419	2563	2706	2849	
29	2993	3136	3279	3423	3566	3710	3853	3996	4140	4283	
3030	4426	4570	4713	4856	5000	5143	5286	5429	5573	5716	
31	5859	6003	6146	6289	6432	6576	6719	6862	7005	7149	
32	7292	7435	7578	7722	7865	8008	8151	8295	8438	8581	
33	8724	8867	9010	9154	9297	9440	9583	9726	9869	0013	
34	4820156	0299	0442	0585	0728	0871	1015	1158	1301	1444	
35	1587	1730	1873	2016	2159	2302	2445	2589	2732	2875	
36	3018	3161	3304	3447	3590	3733	3876	4019	4162	4305	
37	4448	4591	4734	4877	5020	5163	5306	5449	5592	5735	143
38	5878	6021	6164	6307	6449	6592	6735	6878	7021	7164	
39	7307	7450	7593	7736	7879	8021	8164	8307	8450	8593	
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41	4830164	0307	0450	0593	0735	0878	1021	1164	1307	1449	
42	1592	1735	1878	2020	2163	2306	2449	2591	2734	2877	
43	3020	3162	3305	3448	3590	3733	3876	4018	4161	4304	
44	4446	4589	4732	4874	5017	5160	5302	5445	5588	5730	
45	5873	6016	6158	6301	6443	6586	6729	6871	7014	7156	
46	7299	7442	7584	7727	7869	8012	8154	8297	8439	8582	
47	8725	8867	9010	9152	9295	9437	9580	9722	9865	0007	
48	4840150	0292	0435	0577	0720	0862	1004	1147	1289	1432	
49	1574	1717	1859	2002	2144	2286	2429	2571	2714	2856	
3050	2998	3141	3283	3426	3568	3710	3853	3995	4137	4280	
51	4422	4564	4707	4849	4991	5134	5276	5418	5561	5703	
52	5845	5988	6130	6272	6414	6557	6699	6841	6984	7126	
53	7268	7410	7553	7695	7837	7979	8121	8264	8406	8548	
54	8690	8833	8975	9117	9259	9401	9543	9686	9828	9970	
55	4850112	0254	0396	0539	0681	0823	0965	1107	1249	1391	
56	1533	1676	1818	1960	2102	2244	2386	2528	2670	2812	
57	2954	3096	3239	3381	3523	3665	3807	3949	4091	4233	142
58	4375	4517	4659	4801	4943	5085	5227	5369	5511	5653	
59	5795	5937	6079	6221	6363	6505	6647	6788	6930	7072	
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61	8633	8775	8917	9059	9201	9343	9484	9626	9768	9910	
62	4860052	0194	0336	0477	0619	0761	0903	1045	1186	1328	
63	1470	1612	1754	1896	2037	2179	2321	2462	2604	2746	
64	2888	3029	3171	3312	3455	3596	3738	3880	4021	4163	
65	4305	4446	4588	4730	4872	5013	5155	5297	5438	5580	
66	5722	5863	6005	6146	6288	6430	6571	6713	6855	6996	
67	7138	7279	7421	7563	7704	7846	7987	8129	8270	8412	
68	8554	8695	8837	8978	9120	9261	9403	9544	9686	9827	
69	9969	0110	0252	0393	0535	0676	0818	0959	1101	1242	
Di	{ 143	{ 14	29	43	57	72	86	100	114	129	
Di	{ 142	{ 14	28	43	57	71	85	99	114	128	

No.	0	1	2	3	4	5	6	7	8	9	D.
3070	4871384	1525	1667	1808	1950	2091	2232	2374	2515	2657	
71	2798	2940	3081	3222	3364	3505	3647	3788	3929	4071	
72	4212	4353	4495	4636	4778	4919	5060	5202	5343	5484	
73	5626	5767	5908	6050	6191	6332	6473	6615	6756	6897	
74	7039	7180	7321	7462	7604	7745	7886	8027	8169	8310	
75	8451	8592	8734	8875	9016	9157	9299	9440	9581	9722	
76	9863	0004	0146	0287	0428	0569	0710	0852	0993	1134	
77	4881275	1416	1557	1698	1839	1981	2122	2263	2404	2545	
78	2686	2827	2968	3109	3251	3392	3533	3674	3815	3956	
79	4097	4238	4379	4520	4661	4802	4943	5084	5225	5366	141
3080	5507	5648	5789	5930	6071	6212	6353	6494	6635	6776	
81	6917	7058	7199	7340	7481	7622	7763	7904	8045	8185	
82	8326	8467	8608	8749	8890	9031	9172	9313	9454	9594	
83	9735	9876	0017	0158	0299	0440	0580	0721	0862	1003	
84	4891144	1285	1425	1566	1707	1848	1989	2129	2270	2411	
85	2552	2692	2833	2974	3115	3256	3396	3537	3678	3818	
86	3959	4100	4241	4381	4522	4663	4804	4944	5085	5226	
87	5366	5507	5648	5788	5929	6070	6210	6351	6492	6632	
88	6773	6914	7054	7195	7335	7476	7617	7757	7898	8038	
89	8179	8320	8460	8601	8741	8882	9023	9163	9304	9444	
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91	4900990	1131	1271	1412	1552	1693	1833	1973	2114	2254	
92	2395	2535	2676	2816	2957	3097	3238	3378	3518	3659	
93	3799	3940	4080	4220	4361	4501	4642	4782	4922	5063	
94	5203	5343	5484	5624	5765	5905	6045	6186	6326	6466	
95	6607	6747	6887	7027	7168	7308	7448	7589	7729	7869	
96	8010	8150	8290	8430	8571	8711	8851	8991	9132	9272	
97	9412	9552	9693	9833	9973	0113	0253	0394	0534	0674	
98	4910814	0934	1094	1235	1375	1515	1655	1795	1935	2076	
99	2216	2356	2496	2636	2776	2916	3057	3197	3337	3477	
3100	3617	3757	3897	4037	4177	4317	4457	4597	4738	4878	
01	5018	5158	5298	5438	5578	5718	5858	5998	6138	6278	140
02	6418	6558	6698	6838	6978	7118	7258	7398	7538	7678	
03	7818	7958	8098	8238	8378	8517	8657	8797	8937	9077	
04	9217	9357	9497	9637	9777	9917	0057	0196	0336	0476	
05	4920816	0756	0896	1036	1175	1315	1455	1595	1735	1875	
06	2015	2154	2294	2434	2574	2714	2853	2993	3133	3273	
07	3413	3552	3693	3832	3972	4111	4251	4391	4531	4670	
08	4810	4950	5090	5229	5369	5509	5648	5788	5928	6068	
09	6307	6347	6487	6626	6766	6905	7045	7185	7325	7464	
3110	7604	7744	7883	8023	8162	8302	8442	8581	8721	8861	
11	9000	9140	9279	9419	9558	9698	9838	9977	0117	0256	
12	4930396	0535	0675	0815	0954	1094	1233	1373	1512	1652	
13	1791	1931	2070	2210	2349	2489	2628	2768	2907	3047	
14	3186	3326	3465	3604	3744	3883	4023	4162	4302	4441	
Index	241	240	14	28	42	56	71	85	99	113	127
	240	14	28	42	56	70	84	98	112	126	

No.	0	1	2	3	4	5	6	7	8	9	D.
3115	4934581	4720	4859	4999	5138	5278	5417	5556	5696	5835	
16	5974	6114	6253	6393	6532	6671	6811	6950	7089	7229	
17	7368	7507	7647	7786	7925	8065	8204	8343	8483	8622	
18	8761	8900	9040	9179	9318	9457	9597	9736	9875	0015	
19	4940154	0293	0432	0571	0711	0850	0989	1128	1268	1407	
3120	1546	1685	1824	1964	2103	2242	2381	2520	2659	2799	
21	2938	3077	3216	3355	3494	3633	3773	3912	4051	4190	
22	4329	4468	4607	4746	4885	5024	5164	5303	5442	5581	
23	5720	5859	5998	6137	6276	6415	6554	6693	6832	6971	
24	7110	7249	7388	7527	7666	7805	7944	8083	8222	8361	
25	8500	8639	8778	8917	9056	9195	9334	9473	9612	9751	139
26	9890	0029	0168	0307	0445	0584	0723	0862	1001	1140	
27	4951279	1418	1557	1695	1834	1973	2112	2251	2390	2529	
28	2667	2806	2945	3084	3223	3362	3500	3639	3778	3917	
29	4056	4194	4333	4472	4611	4750	4888	5027	5166	5305	
3130	5443	5582	5721	5860	5998	6137	6276	6415	6553	6692	
31	6831	6969	7108	7247	7385	7524	7663	7802	7940	8079	
32	8218	8356	8495	8634	8772	8911	9049	9188	9327	9465	
33	9604	9743	9881	0020	0158	0297	0436	0574	0713	0851	
34	4960990	1128	1267	1406	1544	1683	1821	1960	2098	2237	
35	2375	2514	2653	2791	2930	3068	3207	3345	3484	3622	
36	3761	3899	4038	4176	4314	4453	4591	4730	4868	5007	
37	5145	5284	5422	5560	5699	5837	5976	6114	6253	6391	
38	6529	6668	6806	6945	7083	7221	7360	7498	7636	7775	
39	7913	8052	8190	8328	8467	8605	8743	8882	9020	9158	
3140	9296	9435	9573	9711	9850	9988	0126	0265	0403	0541	
41	4970679	0818	0956	1094	1232	1371	1509	1647	1785	1924	
42	2062	2200	2338	2476	2615	2753	2891	3029	3167	3306	
43	3444	3582	3720	3858	3996	4135	4273	4411	4549	4687	
44	4825	4964	5102	5240	5378	5516	5654	5792	5930	6068	
45	6206	6345	6483	6621	6759	6897	7035	7173	7311	7449	
46	7587	7725	7863	8001	8139	8277	8415	8553	8691	8829	
47	8967	9105	9243	9381	9519	9657	9795	9933	0071	0209	138
48	4980347	0485	0623	0761	0899	1037	1175	1313	1451	1589	
49	1727	1865	2002	2140	2278	2416	2554	2692	2830	2968	
3150	3106	3243	3381	3519	3657	3795	3933	4071	4208	4346	
51	4484	4622	4760	4897	5035	5173	5311	5449	5587	5724	
52	5862	6000	6138	6275	6413	6551	6689	6826	6964	7102	
53	7240	7377	7515	7653	7791	7928	8066	8204	8341	8479	
54	8617	8755	8893	9030	9168	9305	9443	9581	9718	9856	
55	9994	0131	0269	0407	0544	0682	0819	0957	1095	1232	
56	4991870	1508	1645	1783	1920	2058	2196	2333	2471	2608	
57	2746	2883	3021	3158	3296	3434	3571	3709	3846	3984	
58	4121	4259	4396	4534	4671	4809	4946	5084	5221	5359	
59	5496	5634	5771	5909	6046	6184	6321	6459	6596	6733	
12	139	14	28	42	56	70	83	97	111	125	
13	138	14	28	41	55	69	83	97	110	124	

No.	0	1	2	3	4	5	6	7	8	9	D.
3160	4996971	7008	7146	7283	7421	7558	7695	7833	7970	8108	137
61	8245	8382	8520	8657	8794	8932	9069	9207	9344	9481	
62	9619	9756	9893	0031	0168	0305	0443	0580	0717	0855	
63	5000992	1129	1267	1404	1541	1678	1816	1953	2090	2227	
64	2365	2502	2639	2777	2914	3051	3188	3325	3463	3600	
65	3737	3874	4012	4149	4286	4423	4560	4698	4835	4972	
66	5109	5246	5383	5521	5658	5795	5932	6069	6206	6344	
67	6481	6618	6755	6892	7029	7166	7303	7440	7578	7715	
68	7852	7989	8126	8263	8400	8537	8674	8811	8948	9085	
69	9222	9359	9496	9634	9771	9908	0045	0182	0319	0456	
3170	5010593	0730	0867	1004	1141	1278	1415	1552	1689	1825	
71	1962	2099	2236	2373	2510	2647	2784	2921	3058	3195	
72	3332	3469	3606	3743	3879	4016	4153	4290	4427	4564	
73	4701	4838	4974	5111	5248	5385	5522	5659	5796	5932	
74	6069	6206	6343	6480	6617	6753	6890	7027	7164	7301	
75	7437	7574	7711	7848	7984	8121	8258	8395	8531	8668	
76	8805	8942	9078	9215	9352	9489	9625	9762	9899	0035	
77	5020172	0309	0446	0582	0719	0856	0992	1129	1266	1402	
78	1539	1676	1812	1949	2086	2222	2359	2495	2632	2769	
79	2905	3042	3178	3315	3452	3588	3725	3861	3998	4135	
3180	4271	4408	4544	4681	4817	4954	5091	5227	5364	5500	136
81	5637	5773	5910	6046	6183	6319	6456	6592	6729	6865	
82	7002	7138	7275	7411	7548	7684	7821	7957	8093	8230	
83	8366	8503	8639	8776	8912	9049	9185	9321	9458	9594	
84	9731	9867	0003	0140	0276	0413	0549	0685	0822	0958	
85	5031094	1231	1367	1503	1640	1776	1912	2049	2185	2321	
86	2458	2594	2730	2867	3003	3139	3276	3412	3548	3684	
87	3821	3957	4093	4229	4366	4502	4638	4774	4911	5047	
88	5183	5319	5456	5592	5728	5864	6000	6137	6273	6409	
89	6545	6681	6818	6954	7090	7226	7362	7498	7635	7771	
3190	7907	8043	8179	8315	8451	8587	8724	8860	8996	9132	
91	9268	9404	9540	9676	9812	9948	0085	0221	0357	0493	
92	5040629	0765	0901	1037	1173	1309	1445	1581	1717	1853	
93	1989	2125	2261	2397	2533	2669	2805	2941	3077	3213	
94	3349	3485	3621	3757	3893	4029	4165	4301	4437	4573	
95	4709	4845	4980	5116	5252	5388	5524	5660	5796	5932	
96	6068	6204	6339	6475	6611	6747	6883	7019	7155	7291	
97	7426	7562	7698	7834	7970	8106	8241	8377	8513	8649	
98	8785	8920	9056	9192	9328	9464	9599	9735	9871	0007	
99	5050142	0278	0414	0550	0685	0821	0957	1093	1228	1364	
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01	2857	2992	3128	3264	3399	3535	3671	3806	3942	4078	
02	4213	4349	4485	4620	4756	4891	5027	5163	5298	5434	
03	5569	5705	5841	5976	6112	6247	6383	6518	6654	6790	
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D.	137	136	14	27	41	55	69	82	96	110	123
	136	135	14	27	41	54	68	82	95	109	122

No.	0	1	2	3	4	5	6	7	8	9	D.
3205	5058980	8416	8551	8687	8829	8958	9093	9229	9364	9500	
06	9635	9771	9906	0042	0177	0312	0448	0583	0719	0854	
07	5060990	1125	1260	1396	1531	1667	1802	1937	2073	2208	
08	2344	2479	2614	2750	2885	3020	3156	3291	3426	3562	
09	3697	3833	3968	4103	4238	4374	4509	4644	4780	4915	
3210	5050	5186	5321	5456	5591	5727	5862	5997	6133	6268	
11	6403	6538	6674	6809	6944	7079	7214	7350	7485	7620	
12	7755	7891	8026	8161	8296	8431	8567	8702	8837	8972	
13	9107	9242	9378	9513	9648	9783	9918	0053	0188	0324	
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15	1810	1945	2080	2215	2350	2485	2620	2755	2890	3025	
16	3160	3295	3430	3566	3701	3836	3971	4106	4241	4376	
17	4511	4646	4781	4916	5051	5186	5321	5456	5590	5725	135
18	5860	5995	6130	6265	6400	6535	6670	6805	6940	7075	
19	7210	7345	7480	7614	7749	7884	8019	8154	8289	8424	
3220	8559	8694	8828	8963	9098	9233	9368	9503	9638	9772	
21	9907	0042	0177	0312	0447	0581	0716	0851	0986	1121	
22	5081255	1390	1525	1660	1794	1929	2064	2199	2334	2468	
23	2603	2738	2873	3007	3142	3277	3411	3546	3681	3816	
24	3950	4085	4220	4354	4489	4624	4758	4893	5028	5163	
25	5297	5432	5567	5701	5836	5970	6105	6240	6374	6509	
26	6644	6778	6913	7047	7182	7317	7451	7586	7720	7855	
27	7990	8124	8259	8393	8528	8663	8797	8932	9066	9201	
28	9335	9470	9604	9739	9873	0008	0142	0277	0411	0546	
29	5090680	0815	0949	1084	1218	1353	1487	1622	1756	1891	
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31	3370	3504	3638	3773	3907	4042	4176	4310	4445	4579	
32	4714	4848	4982	5117	5251	5385	5520	5654	5788	5923	
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34	7400	7534	7669	7803	7937	8072	8206	8340	8474	8609	
35	8743	8877	9011	9146	9280	9414	9548	9682	9817	9951	
36	5100065	0219	0354	0488	0622	0756	0890	1024	1159	1293	
37	1427	1561	1695	1829	1964	2098	2232	2366	2500	2634	
38	2768	2903	3037	3171	3305	3439	3573	3707	3841	3975	134
39	4109	4244	4378	4512	4646	4780	4914	5048	5182	5316	
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42	8130	8264	8398	8532	8666	8800	8934	9068	9202	9336	
43	9469	9603	9737	9871	0005	0139	0273	0407	0541	0675	
44	5110808	0942	1076	1210	1344	1478	1612	1746	1879	2013	
45	2147	2281	2415	2548	2682	2816	2950	3084	3218	3351	
46	3485	3619	3753	3887	4020	4154	4288	4422	4555	4689	
47	4823	4957	5090	5224	5358	5492	5625	5759	5893	6026	
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49	7497	7631	7764	7898	8032	8165	8299	8433	8566	8700	
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54	4175	4309	4442	4576	4709	4843	4976	5110	5243	5377	
55	5510	5643	5777	5910	6044	6177	6310	6444	6577	6711	
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58	9511	9644	9777	9911	0044	0177	0311	0444	0577	0710	
59	5130844	0977	1110	1243	1377	1510	1643	1776	1910	2043	
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61	3508	3641	3774	3908	4041	4174	4307	4440	4573	4706	133
62	4840	4973	5106	5239	5372	5505	5638	5771	5905	6038	
63	6171	6304	6437	6570	6703	6836	6969	7102	7235	7368	
64	7502	7635	7768	7901	8034	8167	8300	8433	8566	8699	
65	8832	8965	9098	9231	9364	9497	9630	9763	9896	0029	
66	5140162	0295	0428	0561	0694	0827	0960	1093	1225	1358	
67	1491	1624	1757	1890	2023	2156	2289	2422	2555	2688	
68	2820	2953	3086	3219	3352	3485	3618	3751	3883	4016	
69	4149	4282	4415	4548	4681	4813	4946	5079	5212	5345	
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72	8133	8266	8398	8531	8664	8797	8929	9062	9195	9327	
73	9460	9593	9725	9858	9991	0123	0256	0389	0521	0654	
74	5150787	0919	1052	1185	1317	1450	1583	1715	1848	1980	
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77	4764	4897	5029	5162	5294	5427	5560	5692	5825	5957	
78	6089	6222	6354	6487	6619	6752	6884	7017	7149	7282	
79	7414	7547	7679	7811	7944	8076	8209	8341	8474	8606	
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82	1386	1518	1650	1783	1915	2047	2180	2312	2444	2577	
83	2709	2841	2973	3106	3238	3370	3502	3635	3767	3899	
84	4031	4164	4296	4428	4560	4693	4825	4957	5089	5222	
85	5354	5486	5618	5750	5883	6015	6147	6279	6411	6543	
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87	7997	8129	8261	8393	8526	8658	8790	8922	9054	9186	
88	9318	9450	9582	9714	9846	9978	0111	0243	0375	0507	
89	5170639	0771	0903	1035	1167	1299	1431	1563	1695	1827	
3290	1959	2091	2223	2355	2487	2619	2751	2883	3015	3147	
91	3279	3411	3543	3675	3807	3939	4071	4203	4334	4466	
92	4598	4730	4862	4994	5126	5258	5390	5522	5654	5785	
93	5917	6049	6181	6313	6445	6577	6709	6840	6972	7104	
94	7236	7368	7500	7631	7763	7895	8027	8159	8291	8422	
Diff.	{ 133	{ 13	27	40	53	67	80	93	106	120	
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42	5240064	0194	0324	0454	0584	0714	0844	0974	1104	1234	
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46	5259	5389	5519	5649	5779	5908	6038	6168	6298	6427	
47	6557	6687	6817	6946	7076	7206	7336	7465	7595	7725	
48	7854	7984	8114	8244	8373	8503	8633	8762	8892	9022	
49	9151	9281	9411	9540	9670	9800	9929	0059	0189	0318	
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51	1744	1874	2003	2133	2263	2392	2522	2651	2781	2911	
52	3040	3170	3299	3429	3558	3688	3817	3947	4076	4206	
53	4336	4465	4595	4724	4854	4983	5113	5242	5372	5501	
54	5631	5760	5890	6019	6148	6278	6407	6537	6666	6796	
55	6925	7055	7184	7314	7443	7572	7702	7831	7961	8090	
56	8220	8349	8478	8608	8737	8867	8996	9125	9255	9384	
57	9513	9643	9772	9902	0031	0160	0290	0419	0548	0678	
58	5260807	0936	1066	1195	1324	1454	1583	1712	1841	1971	
59	2100	2229	2359	2488	2617	2746	2876	3005	3134	3264	
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61	4685	4814	4944	5073	5202	5331	5460	5590	5719	5848	
62	5977	6106	6235	6365	6494	6623	6752	6881	7010	7140	129
63	7269	7398	7527	7656	7785	7914	8043	8173	8302	8431	
64	8560	8689	8818	8947	9076	9205	9334	9463	9593	9722	
65	9851	9980	0109	0238	0367	0496	0625	0754	0883	1012	
66	5271141	1270	1399	1528	1657	1786	1915	2044	2173	2302	
67	2431	2560	2689	2818	2947	3076	3205	3334	3463	3592	
68	3721	3850	3979	4108	4237	4366	4494	4623	4752	4881	
69	5010	5139	5268	5397	5526	5655	5783	5912	6041	6170	
3370	6299	6428	6557	6686	6814	6943	7072	7201	7330	7459	
71	7588	7716	7845	7974	8103	8232	8360	8489	8618	8747	
72	8876	9004	9133	9262	9391	9520	9648	9777	9906	0035	
73	5280163	0292	0421	0550	0678	0807	0936	1065	1193	1322	
74	1451	1579	1708	1837	1966	2094	2223	2352	2480	2609	
75	2738	2866	2995	3124	3252	3381	3510	3638	3767	3896	
76	4024	4153	4282	4410	4539	4668	4796	4925	5053	5182	
77	5311	5439	5568	5696	5825</						

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32	5473	5599	5726	5852	5979	6105	6232	6359	6485	6612	
33	6738	6865	6991	7118	7244	7371	7497	7623	7750	7876	
34	8003	8129	8256	8382	8509	8635	8762	8888	9015	9141	
35	9267	9394	9520	9647	9773	9900	0026	0152	0279	0405	
36	5360532	0658	0784	0911	1037	1163	1290	1416	1543	1669	
37	1795	1922	2048	2174	2301	2427	2553	2680	2806	2932	
38	3059	3185	3311	3438	3564	3690	3817	3943	4069	4195	
39	4322	4448	4574	4701	4827	4953	5079	5206	5332	5458	
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41	6847	6973	7099	7225	7352	7478	7604	7730	7856	7982	
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43	9370	9496	9622	9749	9875	0001	0127	0253	0379	0505	126
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45	1892	2018	2144	2270	2396	2523	2649	2775	2901	3027	
46	3153	3279	3405	3531	3657	3783	3909	4035	4161	4287	
47	4413	4539	4665	4791	4917	5043	5169	5295	5421	5547	
48	5673	5799	5924	6050	6176	6302	6428	6554	6680	6806	
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52	5380708	0834	0959	1085	1211	1337	1463	1588	1714	1840	
53	1966	2092	2217	2343	2469	2595	2720	2846	2972	3098	
54	3223	3349	3475	3601	3726	3852	3978	4103	4229	4355	
55	4481	4606	4732	4858	4983	5109	5235	5360	5486	5612	
56	5737	5863	5989	6114	6240	6366	6491	6617	6743	6868	
57	6994	7119	7245	7371	7496	7622	7747	7873	7999	8124	
58	8250	8375	8501	8627	8752	8878	9003	9129	9255	9380	
59	9506	9631	9757	9882	0008	0133	0259	0384	0510	0635	
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61	2016	2141	2267	2392	2518	2643	2769	2894	3020	3145	
62	3271	3396	3522	3647	3772	3898	4023	4149	4274	4400	
63	4525	4650	4776	4901	5027	5152	5277	5403	5528	5653	125
64	5779	5904	6030	6155	6280	6406	6531	6656	6782	6907	
65	7032	7158	7283	7408	7534	7659	7784	7910	8035	8160	
66	8286	8411	8536	8661	8787	8912	9037	9163	9288	9413	
67	9538	9664	9789	9914	0039	0165	0290	0415	0540	0666	
68	5400791	0916	1041	1167	1292	1417	1542	1667	1793	1918	
69	2043	2168	2293	2419	2544	2669	2794	2919	3044	3170	
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72	5797	5922	6047	6172	6297	6423	6548	6673	6798	6923	
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78	3296	3421	3546	3670	3795	3920	4045	4170	4295	4419	
79	4544	4669	4794	4919	5044	5168	5293	5418	5543	5668	
3480	5792	5917	6042	6167	6292	6416	6541	6666	6791	6915	
81	7040	7165	7290	7415	7539	7664	7789	7913	8038	8163	
82	8288	8412	8537	8662	8787	8911	9036	9161	9285	9410	
83	9535	9659	9784	9909	0033	0158	0283	0407	0532	0657	
84	5420781	0906	1031	1155	1280	1405	1529	1654	1779	1903	
85	2028	2152	2277	2402	2526	2651	2775	2900	3025	3149	
86	3274	3398	3523	3648	3772	3897	4021	4146	4270	4395	
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88	5765	5889	6014	6138	6263	6387	6512	6636	6761	6885	
89	7010	7134	7259	7383	7508	7632	7756	7881	8005	8130	
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91	9498	9623	9747	9872	9996	0120	0245	0369	0494	0618	
92	5430742	0867	0991	1115	1240	1364	1488	1613	1737	1862	
93	1986	2110	2235	2359	2483	2607	2732	2856	2980	3105	
94	3229	3353	3478	3602	3726	3850	3975	4099	4223	4348	
95	4472	4596	4720	4845	4969	5093	5217	5342	5466	5590	
96	5714	5838	5963	6087	6211	6335	6460	6584	6708	6832	
97	6956	7081	7205	7329	7453	7577	7701	7826	7950	8074	
98	8198	8322	8446	8571	8695	8819	8943	9067	9191	9315	
99	9439	9564	9688	9812	9936	0060	0184	0308	0432	0556	124
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03	4401	4525	4649	4773	4897	5021	5145	5269	5393	5517	
04	5641	5765	5889	6013	6137	6261	6385	6508	6632	6756	
05	6880	7004	7128	7252	7376	7500	7624	7747	7871	7995	
06	8119	8243	8367	8491	8615	8738	8862	8986	9110	9234	
07	9358	9481	9605	9729	9853	9977	0101	0224	0348	0472	
08	5450596	0720	0843	0967	1091	1215	1339	1462	1586	1710	
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17	1724	1847	1971	2094	2218	2341	2465	2588	2711	2835	
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19	4193	4316	4439	4563	4686	4810	4933	5056	5180	5303	
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21	6660	6784	6907	7030	7154	7277	7400	7524	7647	7770	
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24	5470359	0482	0605	0729	0852	0975	1098	1222	1345	1468	
25	1591	1714	1838	1961	2084	2207	2330	2454	2577	2700	
26	2823	2946	3069	3193	3316	3439	3562	3685	3808	3931	
27	4055	4178	4301	4424	4547	4670	4793	4916	5040	5163	
28	5286	5409	5532	5655	5778	5901	6024	6147	6270	6394	
29	6517	6640	6763	6886	7009	7132	7255	7378	7501	7624	
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31	8977	9100	9223	9346	9469	9592	9715	9838	9961	0084	
32	5480207	0330	0453	0576	0699	0822	0945	1068	1191	1313	
33	1436	1559	1682	1805	1928	2051	2174	2297	2420	2543	
34	2665	2788	2911	3034	3157	3280	3403	3526	3648	3771	123
35	3894	4017	4140	4263	4386	4509	4631	4754	4877	5000	
36	5123	5245	5368	5491	5614	5737	5859	5982	6105	6228	
37	6351	6473	6596	6719	6842	6964	7087	7210	7333	7456	
38	7578	7701	7824	7947	8069	8192	8315	8437	8560	8683	
39	8806	8928	9051	9174	9296	9419	9542	9665	9787	9910	
3540	5490033	0155	0278	0401	0523	0646	0769	0891	1014	1137	
41	1259	1382	1505	1627	1750	1872	1995	2118	2240	2363	
42	2486	2608	2731	2853	2976	3099	3221	3344	3466	3589	
43	3712	3834	3957	4079	4202	4324	4447	4569	4692	4815	
44	4937	5060	5182	5305	5427	5550	5672	5795	5917	6040	
45	6162	6285	6407	6530	6652	6775	6897	7020	7142	7265	
46	7387	7510	7632	7755	7877	8000	8122	8245	8367	8489	
47	8612	8734	8857	8979	9102	9224	9346	9469	9591	9714	
48	9836	9959	0081	0203	0326	0448	0570	0693	0815	0938	
49	5501060	1182	1305	1427	1549	1672	1794	1917	2039	2161	
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55	8396	8518	8640	8763	8885	9007	9129	9251	9373	9495	
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58	2059	2181	2304	2426	2548	2670	2792	2914	3036	3158	
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65	5520595	0717	0839	0961	1083	1204	1326	1448	1570	1692	
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73	5530330	0452	0573	0695	0816	0938	1059	1181	1302	1424	
74	1545	1667	1789	1910	2032	2153	2275	2396	2517	2639	
75	2760	2882	3003	3125	3246	3368	3489	3611	3732	3854	
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85	4892	5013	5134	5255	5376	5497	5618	5740	5861	5982	
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87	7314	7435	7556	7677	7798	7919	8040	8161	8282	8403	
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91	2154	2275	2396	2517	2638	2759	2880	3001	3121	3242	
92	3363	3484	3605	3726	3847	3968	4089	4210	4330	4451	
93	4572	4693	4814	4935	5056	5176	5297	5418	5539	5660	
94	5781	5902	6022	6143	6264	6385	6506	6627	6747	6868	
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03	6643	6763	6884	7004	7125	7245	7366	7486	7607	7727	
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06	5570257	0378	0498	0619	0739	0859	0980	1100	1221	1341	
07	1461	1582	1702	1823	1943	2063	2184	2304	2425	2545	
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11	6275	6395	6515	6636	6756	6876	6996	7117	7237	7357	
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17	3485	3605	3725	3845	3965	4085	4205	4325	4446	4566	
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19	5886	6006	6126	6246	6366	6486	6606	6726	6846	6966	
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29	7870	7989	8109	8229	8348	8468	8588	8707	8827	8947	
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31	5600262	0382	0502	0621	0741	0860	0980	1100	1219	1339	
32	1458	1578	1698	1817	1937	2056	2176	2295	2415	2534	
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35	5044	5164	5283	5403	5522	5641	5761	5880	6000	6119	
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07	5690226	0343	0460	0577	0694	0812	0929	1046	1163	1280	
08	1397	1514	1631	1749	1866	1983	2100	2217	2334	2451	
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12	6080	6197	6314	6431	6548	6665	6782	6899	7016	7133	117
13	7249	7366	7483	7600	7717	7834	7951	8068	8185	8302	
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28	4759	4876	4992	5109	5225	5341	5458	5574	5691	5807	
29	5924	6040	6157	6273	6390	6506	6623	6739	6855	6972	
3730	7088	7205	7321	7438	7554	7670	7787	7903	8020	8136	
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33	5720580	0696	0813	0929	1045	1162	1278	1394	1511	1627	
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47	6837	6953	7069	7185	7301	7416	7532	7648	7764	7880	
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53	3786	3901	4017	4133	4248	4364	4480	4596	4711	4827	
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57	8412	8528	8643	8759	8874	8990	9105	9221	9337	9452	
58	9568	9683	9799	9914	0030	0146	0261	0377	0492	0608	
59	5750723	0839	0954	1070	1185	1301	1416	1532	1647	1763	
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66	8803	8918	9034	9149	9264	9380	9495	9610	9726	9841	
67	9956	0071	0187	0302	0417	0533	0648	0763	0878	0994	
68	5761109	1224	1339	1455	1570	1685	1800	1916	2031	2146	
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3770	3414	3529	3644	3759	3874	3989	4105	4220	4335	4450	
71	4565	4680	4796	4911	5026	5141	5256	5371	5487	5602	115
72	5717	5832	5947	6062	6177	6292	6408	6523	6638	6753	
73	6868	6983	7098	7213	7328	7444	7559	7674	7789	7904	
74	8019	8134	8249	8364	8479	8594	8709	8824	8939	9055	
75	9170	9285	9400	9515	9630	9745	9860	9975	0090	0205	
76	5770320	0435	0550	0665	0780	0895	1010	1125	1240	1355	
77	1470	1585	1700	1815	1930	2045	2160	2275	2390	2505	
78	2620	2734	2849	2964	3079	3194	3309	3424	3539	3654	
79	3769	3884	3999	4114	4229	4343	4458	4573	4688	4803	
3780	4918	5033	5148	5263	5378	5492	5607	5722	5837	5952	
81	6067	6182	6296	6411	6526	6641	6756	6871	6986	7100	
82	7215	7330	7445	7560	7675	7789	7904	8019	8134	8249	
83	8363	8478	8593	8708	8823	8937	9052	9167	9282	9397	
84	9511	9626	9741	9856	9970	0085	0200	0315	0429	0544	
85	5780659	0774	0888	1003	1118	1233	1347	1462	1577	1691	
86	1806	1921	2036	2150	2265	2380	2494	2609	2724	2838	
87	2953	3068	3182	3297	3412	3526	3641	3756	3870	3985	
88	4200	4214	4329	4444	4558	4673	4788	4902	5017	5131	
89	5246	5361	5475	5590	5705	5819	5934	6048	6163	6278	
3790	6392	6507	6621	6736	6850	6965	7080	7194	7309	7423	
91	7538	7652	7767	7882	7996	8111	8225	8340	8454	8569	
92	8683	8798	8912	9027	9141	9256	9370	9485	9599	9714	
93	9828	9943	0057	0172	0286	0401	0515	0630	0744	0859	
94	5790973	1088	1202	1317	1431	1546	1660	1774	1889	2003	
ع { 115 ع { 12 23 35 46 58 69 81 92 104											

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3795	5792118	2232	2347	2461	2576	2690	2804	2919	3033	3148	
96	3262	3376	3491	3605	3720	3834	3948	4063	4177	4292	
97	4406	4520	4635	4749	4863	4978	5092	5207	5321	5435	
98	5550	5664	5778	5893	6007	6121	6236	6350	6464	6579	
99	6693	6807	6922	7036	7150	7264	7379	7493	7607	7722	
3800	7836	7950	8065	8179	8293	8407	8522	8636	8750	8864	
01	8979	9093	9207	9321	9436	9550	9664	9778	9893	0007	
02	5800121	0235	0350	0464	0578	0692	0806	0921	1035	1149	
03	1263	1377	1492	1606	1720	1834	1948	2063	2177	2291	
04	2405	2519	2633	2748	2862	2976	3090	3204	3318	3432	
05	3547	3661	3775	3889	4003	41	4231	4346	4460	4574	
06	4688	4802	4916	5030	5144	5258	5372	5487	5601	5715	
07	5829	5943	6057	6171	6285	6399	6513	6627	6741	6855	
08	6969	7083	7197	7312	7426	7540	7654	7768	7882	7996	
09	8110	8224	8338	8452	8566	8680	8794	8908	9022	9136	
3810	9250	9364	9478	9592	9706	9820	9934	0048	0162	0276	
11	5810389	0503	0617	0731	0845	0959	1073	1187	1301	1415	
12	1529	1643	1757	1871	1985	2099	2212	2326	2440	2554	
13	2668	2782	2896	3010	3124	3238	3351	3465	3579	3693	
14	3807	3921	4035	4148	4262	4376	4490	4604	4718	4832	
15	4945	5059	5173	5287	5401	5515	5628	5742	5856	5970	
16	6084	6197	6311	6425	6539	6653	6766	6880	6994	7108	
17	7222	7335	7449	7563	7677	7790	7904	8018	8132	8245	114
18	8359	8473	8587	8700	8814	8928	9042	9155	9269	9383	
19	9497	9610	9724	9838	9951	0065	0179	0293	0406	0520	
3820	5820634	0747	0861	0975	1088	1202	1316	1429	1543	1657	
21	1770	1884	1998	2111	2225	2339	2452	2566	2680	2793	
22	2907	3020	3134	3248	3361	3475	3589	3702	3816	3929	
23	4043	4157	4270	4384	4497	4611	4725	4838	4952	5065	
24	5179	5292	5406	5520	5633	5747	5860	5974	6087	6201	
25	6314	6428	6541	6655	6769	6882	6996	7109	7223	7336	
26	7450	7563	7677	7790	7904	8017	8131	8244	8358	8471	
27	8585	8698	8812	8925	9039	9152	9265	9379	9492	9606	
28	9719	9833	9946	0060	0173	0287	0400	0513	0627	0740	
29	5830854	0967	1081	1194	1307	1421	1534	1648	1761	1874	
3830	1988	2101	2215	2328	2441	2555	2668	2781	2895	3008	
31	3122	3235	3348	3462	3575	3688	3802	3915	4028	4142	
32	4255	4368	4482	4595	4708	4822	4935	5048	5162	5275	
33	5388	5501	5615	5728	5841	5955	6068	6181	6295	6408	
34	6521	6634	6748	6861	6974	7087	7201	7314	7427	7540	
35	7654	7767	7880	7993	8107	8220	8333	8446	8560	8673	
36	8786	8899	9012	9126	9239	9352	9465	9578	9692	9805	
37	9918	0081	0144	0258	0371	0484	0597	0710	0823	0937	
38	5841050	1163	1276	1389	1502	1615	1729	1842	1955	2068	
39	2181	2294	2407	2520	2634	2747	2860	2973	3086	3199	
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87	6145	6257	6369	6481	6592	6704	6816	6927	7039	7151	
88	7263	7374	7486	7598	7709	7821	7933	8044	8156	8268	
89	8379	8491	8603	8714	8826	8938	9049	9161	9273	9384	
3890	9496	9608	9719	9831	9943	0054	0166	0277	0389	0501	
91	5900612	0724	0836	0947	1059	1170	1282	1394	1505	1617	
92	1728	1840	1951	2063	2175	2286	2398	2509	2621	2732	
93	2844	2956	3067	3179	3290	3402	3513	3625	3736	3848	
94	3959	4071	4183	4294	4406	4517	4629	4740	4852	4963	
95	5075	5186	5298	5409	5521	5632	5744	5855	5967	6078	
96	6189	6301	6412	6524	6635	67	6859	6970	7081	7193	
97	7304	7415	7527	7638	7750	78	7973	8084	8196	8307	
98	8418	8530	8641	8753	8864	8975	9087	9198	9310	9421	
99	9532	9644	9755	9866	9978	0089	0201	0312	0423	0535	
3900	5910646	0757	0869	0980	1091	1203	1314	1426	1537	1648	
01	1760	1871	1982	2093	2205	2316	2427	2539	2650	2761	
02	2873	2984	3095	3207	3318	3429	3540	3652	3763	3874	
03	3986	4097	4208	4319	4431	4542	4653	4764	4876	4987	
04	5098	5209	5321	5432	5543	5654	5765	5877	5988	6099	
05	6210	6322	6433	6544	6655	6766	6878	6989	7100	7211	
06	7322	7434	7545	7656	7767	7878	7989	8101	8212	8323	
07	8434	8545	8656	8768	8879	8990	9101	9212	9323	9434	
08	9546	9657	9768	9879	9990	0101	0212	0323	0434	0546	
09	5920657	0768	0879	0990	1101	1212	1323	1434	1545	1656	
3910	1768	1879	1990	2101	2212	2323	2434	2545	2656	2767	
11	2878	2989	3100	3211	3322	3433	3544	3655	3766	3877	
12	3988	4099	4210	4321	4433	4544	4655	4766	4876	4987	
13	5098	5209	5320	5431	5542	5653	5764	5875	5986	6097	
14	6208	6319	6430	6541	6652	6763	6874	6985	7096	7207	
15	7318	7429	7540	7650	7761	7872	7983	8094	8205	8316	
16	8427	8538	8649	8760	8870	8981	9092	9203	9314	9425	
17	9536	9647	9757	9868	9979	0090	0201	0312	0423	0533	
18	5930644	0755	0866	0977	1088	1199	1309	1420	1531	1642	
19	1753	1863	1974	2085	2196	2307	2417	2528	2639	2750	
3920	2861	2971	3082	3193	3304	3415	3525	3636	3747	3858	
21	3968	4079	4190	4301	4411	4522	4633	4744	4854	4965	
22	5076	5187	5297	5408	5519	5630	5740	5851	5962	6072	
23	6183	6294	6404	6515	6626	6737	6847	6958	7069	7179	
24	7290	7401	7511	7622	7733	7843	7954	8065	8175	8286	
25	8397	8507	8618	8729	8839	8950	9060	9171	9282	9392	
26	9503	9614	9724	9835	9945	0056	0167	0277	0388	0498	
27	5940609	0720	0830	0941	1051	1162	1273	1383	1494	1604	
28	1715	1825	1936	2046	2157	2268	2378	2489	2599	2710	
29	2820	2931	3041	3152	3262	3373	3483	3594	3704	3815	
3930	3926	4036	4147	4257	4368	4478	4588	4699	4809	4920	
31	5080	5141	5251	5362	5472	5583	5693	5804	5914	6025	
111											
111 11 22 33 44 56 67 78 89 100											

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3932	5946135	6246	6356	6466	6577	6687	6798	6908	7019	7129	
33	7239	7350	7460	7571	7681	7792	7902	8012	8123	8233	
34	8344	8454	8564	8675	8785	8895	9006	9116	9227	9337	
35	9447	9558	9668	9778	9889	9999	0110	0220	0330	0441	
36	5950551	0661	0772	0882	0992	1103	1213	1323	1434	1544	
37	1654	1764	1875	1985	2095	2206	2316	2426	2537	2647	
38	2757	2867	2978	3088	3198	3308	3419	3529	3639	3750	
39	3860	3970	4080	4191	4301	4411	4521	4632	4742	4852	
3940	4962	5072	5183	5293	5403	5513	5624	5734	5844	5954	
41	6064	6175	6285	6395	6505	6615	6725	6836	6946	7056	
42	7166	7276	7387	7497	7607	7717	7827	7937	8047	8158	
43	8268	8378	8488	8598	8708	8818	8929	9039	9149	9259	
44	9369	9479	9589	9699	9810	9920	0030	0140	0250	0360	
45	5960470	0580	0690	0800	0910	1020	1131	1241	1351	1461	
46	1571	1681	1791	1901	2011	2121	2231	2341	2451	2561	
47	2671	2781	2891	3001	3111	3221	3331	3441	3551	3661	
48	3771	3881	3991	4101	4211	4321	4431	4541	4651	4761	
49	4871	4981	5091	5201	5311	5421	5531	5641	5751	5861	
3950	5971	6081	6191	6301	6411	6521	6631	6741	6850	6960	
51	7070	7180	7290	7400	7510	7620	7730	7840	7950	8059	
52	8169	8279	8389	8499	8609	8719	8829	8939	9048	9158	
53	9268	9378	9488	9598	9708	9817	9927	0037	0147	0257	
54	5970367	0476	0586	0696	0806	0916	1026	1135	1245	1355	110
55	1465	1575	1684	1794	1904	2014	2124	2233	2343	2453	
56	2563	2673	2782	2892	3002	3112	3221	3331	3441	3551	
57	3661	3770	3880	3990	4099	4209	4319	4429	4538	4648	
58	4758	4868	4977	5087	5197	5306	5416	5526	5636	5745	
59	5855	5965	6074	6184	6294	6403	6513	6623	6733	6842	
3960	6952	7062	7171	7281	7391	7500	7610	7719	7829	7939	
61	8048	8158	8268	8377	8487	8597	8706	8816	8925	9035	
62	9145	9254	9364	9474	9583	9693	9802	9912	0022	0131	
63	5980241	0350	0460	0569	0679	0789	0898	1008	1117	1227	
64	1336	1446	1556	1665	1775	1884	1994	2103	2213	2322	
65	2432	2541	2651	2761	2870	2980	3089	3199	3308	3418	
66	3527	3637	3746	3856	3965	4075	4184	4294	4403	4513	
67	4622	4731	4841	4950	5060	5169	5279	5388	5498	5607	
68	5717	5826	5936	6045	6154	6264	6373	6483	6592	6702	
69	6811	6920	7030	7139	7249	7358	7467	7577	7686	7796	
3970	7905	8014	8124	8233	8343	8452	8561	8671	8780	8890	
71	8999	9108	9218	9327	9436	9546	9655	9764	9874	9983	
72	5990092	0202	0311	0420	0530	0639	0748	0858	0967	1076	
73	1186	1295	1404	1514	1623	1732	1841	1951	2060	2169	
74	2279	2388	2497	2606	2716	2825	2934	3044	3153	3262	
75	3371	3481	3590	3699	3808	3918	4027	4136	4245	4355	
76	4464	4573	4682	4791	4901	5010	5119	5228	5338	5447	
77	5556	5665	5774	5884	5993	6102	6211	6320	6429	6539	
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3978	5996648	6757	6866	6975	7084	7194	7303	7412	7521	7630	
79	7739	7849	7958	8067	8176	8285	8394	8503	8612	8722	
3980	8831	8940	9049	9158	9267	9376	9485	9594	9704	9813	
81	9922	0031	0140	0249	0358	0467	0576	0685	0794	0903	
82	6001013	1122	1231	1340	1449	1558	1667	1776	1885	1994	
83	2103	2212	2321	2430	2539	2648	2757	2866	2975	3084	
84	3193	3302	3411	3520	3629	3738	3847	3956	4065	4174	
85	4283	4392	4501	4610	4719	4828	4937	5046	5155	5264	
86	5373	5482	5591	5700	5809	5918	6027	6136	6244	6353	
87	6462	6571	6680	6789	6898	7007	7116	7225	7334	7443	
88	7551	7660	7769	7878	7987	8096	8205	8314	8423	8531	109
89	8640	8749	8858	8967	9076	9185	9294	9402	9511	9620	
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91	6010817	0926	1035	1144	1253	1361	1470	1579	1688	1797	
92	1905	2014	2123	2232	2340	2449	2558	2667	2776	2884	
93	2993	3102	3211	3319	3428	3537	3646	3754	3863	3972	
94	4081	4189	4298	4407	4516	4624	4733	4842	4950	5059	
95	5168	5277	5385	5494	5603	5711	5820	5929	6037	6146	
96	6255	6363	6472	6581	6690	6798	6907	7016	7124	7233	
97	7341	7450	7559	7667	7776	7885	7993	8102	8211	8319	
98	8428	8537	8645	8754	8862	8971	9080	9188	9297	9405	
99	9514	9623	9731	9840	9948	0057	0166	0274	0383	0491	
4000	6020600	0708	0817	0926	1034	1143	1251	1360	1468	1577	
01	1686	1794	1903	2011	2120	2228	2337	2445	2554	2662	
02	2771	2879	2988	3096	3205	3313	3422	3530	3639	3747	
03	3856	3964	4073	4181	4290	4398	4507	4615	4724	4832	
04	4941	5049	5158	5266	5375	5483	5591	5700	5808	5917	
05	6025	6134	6242	6351	6459	6567	6676	6784	6893	7001	
06	7109	7218	7326	7435	7543	7651	7760	7868	7977	8085	
07	8193	8302	8410	8519	8627	8735	8844	8952	9060	9169	
08	9277	9385	9494	9602	9711	9819	9927	0036	0144	0252	
09	6030361	0469	0577	0686	0794	0902	1010	1119	1227	1335	108
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11	2527	2635	2743	2851	2960	3068	3176	3284	3393	3501	
12	3609	3717	3826	3934	4042	4150	4259	4367	4475	4583	
13	4692	4800	4908	5016	5124	5233	5341	5449	5557	5665	
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15	6855	6964	7072	7180	7288	7396	7504	7613	7721	7829	
16	7937	8045	8153	8261	8370	8478	8586	8694	8802	8910	
17	9018	9126	9235	9343	9451	9559	9667	9775	9886	9991	
18	6040099	0207	0315	0424	0532	0640	0748	0856	0964	1072	
19	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152	
4020	2261	2369	2477	2585	2693	2801	2909	3017	3125	3233	
21	3341	3449	3557	3665	3773	3881	3989	4097	4205	4313	
22	4421	4529	4637	4745	4853	4961	5068	5176	5284	5392	
Diff.	{ 109	{ 11	{ 22	{ 33	{ 44	{ 55	{ 65	{ 76	{ 87	{ 98	
	{ 108	{ 11	{ 22	{ 32	{ 43	{ 54	{ 65	{ 76	{ 86	{ 97	

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4023	6045500	5608	5716	5824	5932	6040	6148	6256	6364	6472	
24	6580	6688	6796	6903	7011	7119	7227	7335	7443	7551	
25	7659	7767	7875	7983	8090	8198	8306	8414	8522	8630	
26	8738	8846	8953	9061	9169	9277	9385	9493	9601	9708	
27	9816	9924	0032	0140	0248	0355	0463	0571	0679	0787	
28	6050895	1002	1110	1218	1326	1434	1541	1649	1757	1865	
29	1973	2080	2188	2296	2404	2512	2619	2727	2835	2943	
4030	3050	3158	3266	3374	3482	3589	3697	3805	3912	4020	
31	4128	4236	4343	4451	4559	4667	4774	4882	4990	5098	
32	5205	5313	5421	5528	5636	5744	5851	5959	6067	6175	
33	6282	6390	6498	6605	6713	6821	6928	7036	7144	7251	
34	7359	7467	7574	7682	7790	7897	8005	8112	8220	8328	
35	8435	8543	8651	8758	8866	8974	9081	9189	9296	9404	
36	9512	9619	9727	9834	9942	0050	0157	0265	0372	0480	
37	6060587	0695	0803	0910	1018	1125	1233	1340	1448	1556	
38	1663	1771	1878	1986	2093	2201	2308	2416	2523	2631	
39	2739	2846	2954	3061	3169	3276	3384	3491	3599	3706	
4040	3814	3921	4029	4136	4244	4351	4459	4566	4674	4781	
41	4889	4996	5103	5211	5318	5426	5533	5641	5748	5856	
42	5963	6071	6178	6285	6393	6500	6608	6715	6823	6930	
43	7037	7145	7252	7360	7467	7574	7682	7789	7897	8004	
44	8111	8219	8326	8434	8541	8648	8756	8863	8971	9078	
45	9185	9293	9400	9507	9615	9722	9829	9937	0044	0151	
46	6070259	0366	0473	0581	0688	0795	0903	1010	1117	1225	
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48	2405	2512	2620	2727	2834	2941	3049	3156	3263	3371	
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64	9537	9644	9751	9858	9964	0071	0178	0285	0392	0499	
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66	1674	1781	1887	1994	2101	2208	2315	2421	2528	2635	
67	2742	2849	2955	3062	3169	3276	3382	3489	3596	3703	
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74	6100210	0317	0423	0530	0637	0743	0850	0956	1063	1170	
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86	2984	3090	3196	3302	3409	3515	3621	3728	3834	3940	
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12	6140531	0637	0742	0848	0954	1059	1165	1270	1376	1482	
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4210	2821	2924	3027	3130	3234	3337	3440	3543	3646	3749	
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15	7976	8079	8182	8285	8388	8491	8594	8697	8800	8903	
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26	9295	9398	9501	9604	9706	9809	9911	0014	0117	0220	
27	6260322	0125	0228	0331	0434	0537	0640	0743	0846	0949	
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56	6890016	0118	0220	0322	0424	0526	0628	0730	0832	0934	
57	1037	1139	1241	1343	1445	1547	1649	1751	1853	1955	
58	2057	2159	2261	2363	2465	2567	2668	2770	2872	2974	
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63	7158	7258	7357	7459	7561	7663	7765	7866	7968	8070	
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65	9190	9292	9394	9496	9598	9699	9801	9903	0005	0107	
66	6500209	0310	0412	0514	0616	0717	0819	0921	1023	1125	
67	1226	1328	1430	1532	1634	1735	1837	1939	2041	2142	
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77	1393	1494	1596	1697	1799	1900	2002	2103	2205	2306	
78	2408	2509	2611	2712	2814	2915	3017	3118	3220	3321	
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88	2548	2649	2750	2852	2953	3054	3155	3257	3358	3459	
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18	2826	2927	3028	3129	3230	3331	3432	3533	3634	3735	
19	3832	3933	4034	4135	4236	4337	4438	4539	4640	4741	
4320	4837	4938	5039	5140	5241	5342	5443	5544	5645	5746	
21	5843	5944	6045	6146	6247	6348	6449	6550	6651	6752	
22	6848	6949	7050	7151	7252	7353	7454	7555	7656	7757	
23	7852	7953	8054	8155	8256	8357	8458	8559	8660	8761	
24	8857	8958	9059	9160	9261	9362	9463	9564	9665	9766	
25	9861	9962	0063	0164	0265	0366	0467	0568	0669	0770	
26	6360865	0966	1067	1168	1269	1367	1467	1568	1669	1769	
27	1869	1969	2070	2171	2270	2371	2471	2571	2672	2772	
28	2873	2974	3075	3176	3274	3374	3475	3576	3676	3776	
29	3876	3976	4076	4177	4277	4377	4478	4578	4678	4779	
4330	4879	4979	5080	5180	5280	5380	5481	5581	5681	5782	
31	5882	5982	6082	6183	6283	6383	6483	6584	6684	6784	
32	6884	6985	7085	7185	7285	7386	7486	7586	7686	7787	
33	7887	7987	8087	8188	8288	8388	8488	8588	8689	8789	
34	8889	8989	9089	9190	9290	9390	9490	9590	9691	9791	
35	9891	9991	0091	0192	0292	0392	0492	0592	0692	0793	
36	6370893	0993	1093	1193	1293	1394	1494	1594	1694	1794	
37	1894	1994	2094	2195	2295	2395	2495	2595	2695	2795	
38	2895	2996	3096	3196	3296	3396	3496	3596	3696	3796	
39	3897	3997	4097	4197	4297	4397	4497	4597	4697	4797	
4340	4897	4997	5097	5197	5296	5396	5496	5596	5696	5796	
41	5898	5998	6098	6198	6298	6398	6498	6598	6698	6798	
42	6898	6998	7098	7198	7298	7398	7498	7598	7698	7798	
43	7898	7998	8098	8198	8298	8398	8498	8598	8698	8798	
100 10 20 30 40 50 60 70 80 90											

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4344	6378898	8998	9098	9198	9298	9398	9498	9598	9698	9798	
45	8998	9998	0098	0198	0298	0398	0497	0597	0697	0797	
46	6380897	0997	1097	1197	1297	1397	1497	1597	1697	1796	
47	1896	1996	2096	2196	2296	2396	2496	2596	2696	2795	
48	2895	2995	3095	3195	3295	3395	3495	3594	3694	3794	
49	3894	3994	4094	4194	4294	4393	4493	4593	4693	4793	
4350	4893	4992	5092	5192	5292	5392	5492	5591	5691	5791	
51	5891	5991	6090	6190	6290	6390	6490	6589	6689	6789	
52	6889	6989	7088	7188	7288	7388	7488	7587	7687	7787	
53	7887	7986	8086	8186	8286	8385	8485	8585	8685	8784	
54	8884	8984	9084	9183	9283	9383	9483	9582	9682	9782	
55	9882	9981	0081	0181	0280	0380	0480	0580	0679	0779	
56	6390879	0978	1078	1178	1277	1377	1477	1577	1676	1776	
57	1876	1975	2075	2175	2274	2374	2474	2573	2673	2773	
58	2872	2972	3072	3171	3271	3371	3470	3570	3669	3769	
59	3869	3968	4068	4168	4267	4367	4466	4566	4666	4765	
4360	4865	4965	5064	5164	5263	5363	5463	5562	5662	5761	
61	5861	5960	6060	6160	6259	6359	6458	6558	6657	6757	
62	6857	6956	7056	7155	7255	7354	7454	7553	7653	7753	
63	7852	7952	8051	8151	8250	8350	8449	8549	8648	8748	
64	8847	8947	9046	9146	9245	9345	9444	9544	9643	9743	
65	9842	9942	0041	0141	0240	0340	0439	0539	0638	0738	
66	6400837	0937	1036	1136	1235	1335	1434	1534	1633	1732	
67	1832	1931	2031	2130	2230	2329	2429	2528	2627	2727	
68	2826	2926	3025	3125	3224	3323	3423	3522	3622	3721	
69	3820	3920	4019	4119	4218	4317	4417	4516	4616	4715	
4370	4814	4914	5013	5113	5212	5311	5411	5510	5609	5709	
71	5808	5907	6007	6106	6205	6305	6404	6504	6603	6702	
72	6802	6901	7000	7100	7199	7298	7398	7497	7596	7695	
73	7795	7894	7993	8093	8192	8291	8391	8490	8589	8688	
74	8788	8887	8986	9086	9185	9284	9383	9483	9582	9681	
75	9781	9880	9979	0078	0178	0277	0376	0475	0575	0674	
76	6410773	0872	0972	1071	1170	1269	1369	1468	1567	1666	
77	1765	1865	1964	2063	2162	2262	2361	2460	2559	2658	
78	2758	2857	2956	3055	3154	3254	3353	3452	3551	3650	
79	3749	3849	3948	4047	4146	4245	4344	4444	4543	4642	
4380	4741	4840	4939	5039	5138	5237	5336	5435	5534	5633	
81	5733	5832	5931	6030	6129	6228	6327	6426	6526	6625	
82	6724	6823	6922	7021	7120	7219	7318	7417	7517	7616	
83	7715	7814	7913	8012	8111	8210	8309	8408	8507	8606	
84	8705	8805	8904	9003	9102	9201	9300	9399	9498	9597	
85	9696	9795	9894	9993	0092	0191	0290	0389	0488	0587	
86	6420696	0785	0884	0983	1082	1181	1280	1379	1478	1577	
87	1676	1775	1874	1973	2072	2171	2270	2369	2468	2567	
88	2666	2765	2864	2963	3062	3161	3260	3359	3458	3557	
89	3656	3755	3854	3953	4052	4151	4249	4348	4447	4546	
99											
10 20 30 40 50 60 70 80											

No.	0	1	2	3	4	5	6	7	8	9	D.
4390	6424645	4744	4845	4942	5041	5140	5239	5338	5437	5535	
91	5634	5733	5832	5931	6030	6129	6228	6327	6426	6524	
92	6623	6722	6821	6920	7019	7118	7217	7315	7414	7513	
93	7612	7711	7810	7909	8007	8106	8205	8304	8403	8502	
94	8601	8699	8798	8897	8996	9095	9194	9292	9391	9490	
95	9589	9688	9786	9885	9984	0083	0182	0280	0379	0478	
96	6430577	0676	0774	0873	0972	1071	1170	1268	1367	1466	
97	1565	1663	1762	1861	1960	2058	2157	2256	2355	2454	
98	2552	2651	2750	2849	2947	3046	3145	3243	3342	3441	
99	3540	3638	3737	3836	3935	4033	4132	4231	4329	4428	
4400	4527	4625	4724	4823	4922	5020	5119	5218	5316	5415	
01	5514	5612	5711	5810	5908	6007	6106	6204	6303	6402	
02	6500	6599	6698	6796	6895	6994	7092	7191	7290	7388	
03	7487	7585	7684	7783	7881	7980	8079	8177	8276	8374	
04	8473	8572	8670	8769	8868	8966	9065	9163	9262	9361	
05	9459	9558	9656	9755	9853	9952	0051	0149	0248	0346	
06	6440445	0543	0642	0741	0839	0938	1036	1135	1233	1332	
07	1431	1529	1628	1726	1825	1923	2022	2120	2219	2317	
08	2416	2514	2613	2711	2810	2908	3007	3105	3204	3302	
09	3401	3499	3598	3696	3795	3893	3992	4090	4189	4287	
4410	4386	4484	4583	4681	4780	4878	4977	5075	5174	5272	
11	5371	5469	5567	5666	5764	5863	5961	6060	6158	6257	
12	6355	6453	6552	6650	6749	6847	6946	7044	7142	7241	
13	7339	7438	7536	7635	7733	7831	7930	8028	8127	8225	
14	8323	8422	8520	8618	8717	8815	8914	9012	9110	9209	
15	9307	9405	9504	9602	9701	9799	9897	9996	0094	0192	
16	6450291	0389	0487	0586	0684	0782	0881	0979	1077	1176	
17	1274	1372	1471	1569	1667	1766	1864	1962	2061	2159	
18	2257	2355	2454	2552	2650	2749	2847	2945	3043	3142	
19	3240	3338	3437	3535	3633	3731	3830	3928	4026	4124	
4420	4223	4321	4419	4517	4616	4714	4812	4910	5009	5107	
21	5205	5303	5402	5500	5598	5696	5795	5893	5991	6089	
22	6187	6286	6384	6482	6580	6678	6777	6875	6973	7071	
23	7169	7268	7366	7464	7562	7660	7758	7857	7955	8053	
24	8151	8249	8348	8446	8544	8642	8740	8838	8936	9035	
25	9133	9231	9329	9427	9525	9623	9722	9820	9918	0016	
26	6460114	0212	0310	0408	0507	0605	0703	0801	0899	0997	
27	1095	1193	1291	1390	1488	1586	1684	1782	1880	1978	
28	2076	2174	2272	2370	2468	2566	2665	2763	2861	2959	
29	3057	3155	3253	3351	3449	3547	3645	3743	3841	3939	
30	4037	4135	4233	4331	4429	4527	4625	4723	4821	4919	
31	5018	5116	5214	5312	5410	5508	5606	5704	5802	5900	
32	5998	6096	6193	6291	6389	6487	6585	6683	6781	6879	
33	6977	7075	7173	7271	7369	7467	7565	7663	7761	7859	
34	7957	8055	8153	8251	8349	8447	8545	8643	8740	8838	
35	8936	9034	9132	9230	9328	9426	9524	9622	9720	9817	
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98

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4488	6514719	4815	4912	5009	5106	5203	5300	5397	5494	5591	
83	5587	5784	5881	5978	6075	6172	6269	6365	6463	6559	
84	6556	6753	6850	6947	7043	7140	7237	7334	7431	7528	
85	7624	7721	7818	7915	8012	8109	8205	8303	8399	8496	
86	8593	8690	8786	8883	8980	9077	9174	9270	9367	9464	
87	9561	9657	9754	9851	9948	0045	0141	0238	0335	0432	
88	6530528	0625	0723	0819	0916	1012	1109	1206	1303	1399	
89	1496	1593	1690	1786	1883	1980	2076	2173	2270	2367	
4490	2463	2560	2657	2754	2850	2947	3044	3140	3237	3334	
91	3431	3527	3624	3721	3817	3914	4011	4107	4204	4301	
92	4397	4494	4591	4688	4784	4881	4978	5074	5171	5268	
93	5364	5461	5558	5654	5751	5847	5944	6041	6137	6234	
94	6331	6427	6524	6621	6717	6814	6910	7007	7104	7200	
95	7297	7394	7490	7587	7683	7780	7877	7973	8070	8166	
96	8263	8360	8456	8553	8649	8746	8843	8939	9036	9132	
97	9229	9325	9422	9519	9615	9712	9808	9905	0001	0098	
98	6530195	0291	0388	0484	0581	0677	0774	0870	0967	1063	
99	1160	1256	1353	1450	1546	1643	1739	1836	1932	2029	
4500	2125	2222	2318	2415	2511	2608	2704	2801	2897	2994	
01	3090	3187	3283	3380	3476	3573	3669	3765	3863	3958	
02	4055	4151	4248	4344	4441	4537	4634	4730	4827	4923	
03	5019	5116	5212	5309	5405	5502	5598	5695	5791	5887	
04	5984	6080	6177	6273	6369	6466	6562	6659	6755	6852	
05	6948	7044	7141	7237	7334	7430	7526	7623	7719	7815	
06	7912	8008	8106	8201	8297	8394	8490	8586	8683	8779	
07	8876	8972	9068	9165	9261	9357	9454	9550	9646	9743	
08	9839	9935	0032	0128	0224	0321	0417	0513	0610	0706	
09	6540802	0899	0995	1091	1188	1284	1380	1477	1573	1669	
4510	1765	1862	1958	2054	2151	2247	2343	2439	2536	2632	
11	2728	2825	2921	3017	3113	3210	3306	3402	3498	3595	
12	3691	3787	3883	3980	4076	4172	4268	4365	4461	4557	
13	4653	4750	4846	4942	5038	5134	5231	5327	5423	5519	
14	5616	5712	5808	5904	6000	6097	6193	6289	6385	6481	
15	6578	6674	6770	6866	6962	7058	7155	7251	7347	7443	
16	7539	7635	7732	7828	7924	8020	8116	8212	8309	8405	
17	8501	8597	8693	8789	8885	8982	9078	9174	9270	9366	
18	9462	9558	9655	9751	9847	9943	0039	0135	0231	0327	
19	6550423	0520	0616	0713	0808	0904	1000	1096	1192	1288	
4520	1384	1480	1577	1673	1769	1865	1961	2057	2153	2249	
21	2345	2441	2537	2633	2729	2825	2921	3017	3113	3210	
22	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	
23	4266	4362	4458	4554	4650	4746	4842	4938	5034	5130	
24	5228	5323	5418	5514	5610	5706	5802	5898	5994	6090	
25	6186	6282	6378	6474	6570	6666	6762	6858	6954	7050	
26	7145	7241	7337	7433	7529	7625	7721	7817	7913	8009	
27	8105	8201	8297	8393	8489	8585	8681	8777	8873	8968	
96											
28	96	10	19	29	38	48	58	67	77	86	

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4574	6602962	3057	3151	3246	3341	3436	3531	3626	3721	3816	
75	3911	4006	4701	4196	4291	4386	4481	4575	4670	4765	
76	4860	4955	5050	5145	5240	5335	5430	5524	5619	5714	
77	5803	5904	5999	6094	6189	6284	6378	6473	6568	6663	
78	6758	6853	6948	7042	7137	7232	7327	7422	7517	7612	
79	7706	7801	7896	7991	8086	8181	8275	8370	8465	8560	
4580	8655	8750	8844	8939	9034	9129	9224	9318	9413	9508	
81	9603	9698	9793	9887	9982	0077	0172	0266	0361	0456	
82	6610551	0646	0740	0835	0930	1025	1120	1214	1309	1404	
83	1499	1593	1688	1783	1878	1972	2067	2162	2257	2351	
84	2446	2541	2636	2730	2825	2920	3015	3109	3204	3299	
85	3393	3488	3583	3678	3772	3867	3962	4056	4151	4246	
86	4341	4435	4530	4625	4719	4814	4909	5003	5098	5193	
87	5287	5382	5477	5571	5666	5761	5855	5950	6045	6139	
88	6234	6329	6423	6518	6613	6707	6802	6897	6991	7086	
89	7181	7275	7370	7464	7559	7654	7748	7843	7938	8032	
4590	8127	8221	8316	8411	8505	8600	8695	8789	8884	8978	
91	9073	9168	9262	9357	9451	9546	9640	9735	9830	9924	
92	6620019	0113	0208	0303	0397	0492	0586	0681	0775	0870	
93	0964	1059	1154	1248	1343	1437	1532	1626	1721	1815	
94	1910	2004	2099	2194	2288	2383	2477	2572	2666	2761	
95	2853	2950	3044	3139	3233	3328	3422	3517	3611	3706	
96	3800	3895	3989	4084	4178	4273	4367	4462	4556	4651	
97	4745	4840	4934	5028	5123	5217	5312	5406	5501	5595	94
98	5690	5784	5879	5973	6067	6162	6256	6351	6445	6540	
99	6634	6729	6823	6917	7012	7106	7201	7295	7389	7484	
4600	7578	7673	7767	7862	7956	8050	8145	8239	8334	8428	
01	8523	8617	8711	8805	8900	8994	9089	9183	9277	9372	
02	9466	9561	9655	9749	9844	9938	0032	0127	0221	0315	
03	6630410	0504	0598	0693	0787	0881	0976	1070	1164	1259	
04	1353	1447	1542	1636	1730	1825	1919	2013	2108	2202	
05	2296	2391	2485	2579	2674	2768	2862	2956	3051	3146	
06	3239	3334	3428	3522	3616	3711	3805	3899	3994	4088	
07	4182	4276	4371	4465	4559	4653	4748	4842	4936	5030	
08	5125	5219	5313	5407	5502	5596	5690	5784	5879	5973	
09	6087	6181	6276	6370	6464	6558	6652	6747	6841	6935	
4610	7009	7103	7198	7292	7386	7480	7574	7669	7763	7857	
11	7951	8045	8140	8234	8328	8422	8516	8610	8705	8799	
12	8893	8987	9081	9175	9270	9364	9458	9552	9646	9740	
13	9835	9929	0023	0117	0211	0305	0399	0494	0588	0682	
14	6640776	0870	0964	1058	1153	1247	1341	1435	1529	1623	
15	1717	1811	1905	1999	2093	2188	2282	2376	2470	2564	
16	2658	2752	2846	2940	3034	3128	3222	3317	3411	3505	
17	3599	3693	3787	3881	3975	4069	4163	4257	4351	4445	
18	4539	4633	4727	4821	4915	5009	5104	5198	5292	5386	
19	5480	5574	5668	5762	5856	5950	6044	6138	6232	6326	
94	9	19	28	38	47	56	66	75	85		

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4620	6646420	6514	6608	6702	6796	6890	6984	7078	7172	7266	
21	7860	7454	7548	7642	7736	7830	7924	8018	8111	8205	
22	8299	8393	8487	8581	8675	8769	8863	8957	9051	9145	
23	9239	9333	9427	9521	9615	9709	9803	9896	9990	0084	
24	6650178	0272	0366	0460	0554	0648	0742	0836	0930	1023	
25	1117	1211	1305	1399	1493	1587	1681	1775	1869	1962	
26	2056	2150	2244	2338	2432	2526	2620	2713	2807	2901	
27	2995	3089	3183	3277	3370	3464	3558	3652	3746	3840	
28	3934	4027	4121	4215	4309	4403	4497	4590	4684	4778	
29	4872	4966	5059	5153	5247	5341	5435	5529	5622	5716	
4630	5810	5904	5998	6091	6185	6279	6373	6466	6560	6654	
31	6748	6842	6935	7029	7123	7217	7310	7404	7498	7592	
32	7686	7779	7873	7967	8061	8154	8248	8342	8436	8529	
33	8623	8717	8810	8904	8998	9092	9185	9279	9373	9467	
34	9550	9644	9738	9831	9925	0019	0113	0206	0300	0404	
35	6660497	0591	0685	0779	0872	0966	1060	1153	1247	1341	
36	1424	1518	1612	1705	1809	1903	1996	2090	2184	2277	
37	2371	2465	2559	2652	2746	2839	2933	3027	3120	3214	
38	3307	3401	3495	3588	3682	3776	3869	3963	4056	4150	
39	4344	4437	4531	4625	4718	4812	4905	4999	5093	5086	
4640	5180	5273	5367	5461	5554	5648	5741	5835	5929	6022	
41	6116	6209	6303	6396	6490	6584	6677	6771	6864	6958	
42	7051	7145	7238	7332	7426	7519	7613	7706	7800	7893	
43	7987	8080	8174	8267	8361	8454	8548	8642	8735	8829	
44	8923	9016	9109	9203	9296	9390	9483	9577	9670	9764	
45	9857	9951	0044	0138	0231	0325	0418	0512	0605	0699	
46	6670793	0886	0979	1072	1166	1259	1353	1446	1540	1633	
47	1727	1820	1914	2007	2101	2194	2287	2381	2474	2568	
48	2661	2755	2848	2941	3035	3128	3222	3315	3409	3502	
49	3595	3689	3782	3876	3969	4063	4156	4249	4343	4436	
4650	4530	4623	4716	4810	4903	4996	5090	5183	5277	5370	
51	5463	5557	5650	5744	5837	5930	6024	6117	6210	6304	
52	6397	6490	6584	6677	6770	6864	6957	7051	7144	7237	
53	7331	7424	7517	7611	7704	7797	7891	7984	8077	8170	
54	8264	8357	8450	8544	8637	8730	8824	8917	9010	9104	
55	9197	9290	9383	9477	9570	9663	9757	9850	9943	0036	
56	6680130	0223	0316	0410	0503	0596	0689	0783	0876	0969	
57	1062	1156	1249	1342	1435	1529	1622	1715	1808	1902	
58	1995	2088	2181	2275	2368	2461	2554	2647	2741	2834	
59	2927	3020	3114	3207	3300	3393	3486	3580	3673	3766	
4660	3859	3952	4046	4139	4232	4325	4418	4511	4605	4698	
61	4791	4884	4977	5071	5164	5257	5350	5443	5536	5630	
62	5793	5886	5979	6073	6166	6259	6352	6445	6538	6631	
63	6644	6747	6840	6934	7027	7120	7213	7306	7399	7492	
64	7585	7679	7772	7866	7958	8051	8144	8237	8330	8423	
65	8516	8610	8703	8796	8889	8982	9075	9168	9261	9354	
93 9 19 28 37 47 56 65 74 84											

No.	0	1	2	3	4	5	6	7	8	9	D.
4666	6689447	9540	9633	9727	9820	9913	0006	0099	0192	0285	
67	6690878	0471	0564	0657	0750	0843	0936	1029	1122	1215	
68	1308	1402	1495	1588	1681	1774	1867	1960	2053	2146	
69	2239	2332	2425	2518	2611	2704	2797	2890	2983	3076	
4670	3169	3262	3355	3448	3541	3634	3727	3820	3913	4006	
71	4099	4192	4285	4378	4471	4564	4656	4749	4842	4935	
72	5028	5121	5214	5307	5400	5493	5586	5679	5772	5865	
73	5958	6051	6144	6237	6330	6422	6515	6608	6701	6794	
74	6887	6980	7073	7166	7259	7352	7445	7537	7630	7723	
75	7816	7909	8002	8095	8188	8281	8374	8466	8559	8652	
76	8745	8838	8931	9024	9117	9209	9302	9395	9488	9581	
77	9674	9767	9859	9952	0045	0138	0231	0324	0416	0509	
78	6700602	0695	0788	0881	0974	1066	1159	1252	1345	1438	
79	+1530	1623	1716	1809	1902	1995	2087	2180	2273	2366	
4680	2459	2551	2644	2737	2830	2922	3015	3108	3201	3294	
81	3386	3479	3572	3665	3758	3850	3943	4036	4129	4221	
82	4314	4407	4500	4592	4685	4778	4871	4963	5056	5149	
83	5242	5334	5427	5520	5613	5705	5798	5891	5983	6076	
84	6169	6262	6354	6447	6540	6632	6725	6818	6911	7003	
85	7096	7189	7281	7374	7467	7559	7652	7745	7837	7930	
86	8023	8116	8208	8301	8394	8486	8579	8672	8764	8857	
87	8950	9042	9135	9228	9320	9413	9505	9598	9691	9783	
88	9876	9969	0061	0154	0247	0339	0432	0524	0617	0710	
89	6710902	0895	0988	1080	1173	1265	1358	1451	1543	1636	93
4690	1728	1821	1914	2006	2099	2191	2284	2377	2469	2562	
91	2654	2747	2839	2932	3025	3117	3210	3302	3395	3487	
92	3580	3673	3765	3858	3950	4043	4136	4228	4320	4413	
93	4506	4598	4691	4783	4876	4968	5061	5153	5246	5338	
94	5431	5523	5616	5708	5801	5893	5986	6078	6171	6263	
95	6358	6448	6541	6633	6726	6818	6911	7003	7096	7188	
96	7281	7373	7466	7558	7651	7743	7836	7928	8021	8113	
97	8206	8298	8391	8483	8575	8668	8760	8853	8945	9038	
98	9130	9223	9315	9407	9500	9592	9685	9777	9870	9962	
99	6720054	0147	0239	0332	0424	0517	0609	0701	0794	0886	
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01	1908	1995	2087	2180	2273	2364	2457	2549	2642	2734	
02	2826	2919	3011	3103	3196	3288	3380	3473	3565	3657	
03	3750	3842	3934	4027	4119	4211	4304	4396	4488	4581	
04	4673	4765	4858	4950	5042	5135	5227	5319	5412	5504	
05	5596	5689	5781	5873	5965	6058	6150	6243	6335	6427	
06	6519	6612	6704	6796	6888	6981	7073	7166	7259	7350	
07	7442	7534	7627	7719	7811	7903	7996	8088	8180	8272	
08	8365	8457	8549	8641	8734	8826	8918	9010	9103	9195	
09	9267	9359	9451	9544	9636	9728	9820	9912	0005	0117	
4710	6730308	0301	0393	0486	0578	0670	0762	0854	0947	1039	
11	1131	1223	1315	1408	1500	1592	1684	1776	1868	1961	
△ 93 △ 9 19 28 37 47 56 65 74 84											

No.	0	1	2	3	4	5	6	7	8	9	D.
4712	6789053	2145	2237	2329	2421	2514	2606	2698	2790	2882	
13	2974	3087	3159	3251	3343	3435	3527	3619	3712	3804	
14	3896	3988	4080	4172	4264	4356	4449	4541	4633	4725	
15	4817	4909	5001	5093	5185	5277	5370	5462	5554	5646	
16	5738	5830	5922	6014	6106	6198	6290	6383	6475	6567	
17	6659	6751	6843	6935	7027	7119	7211	7303	7395	7487	
18	7579	7671	7763	7855	7948	8040	8132	8224	8316	8408	
19	8500	8592	8684	8776	8868	8960	9052	9144	9236	9328	
4720	9420	9512	9604	9696	9788	9880	9972	0064	0156	0248	
21	6740340	0432	0524	0616	0708	0800	0892	0984	1076	1168	
22	1260	1352	1444	1536	1628	1720	1812	1904	1996	2088	
23	2179	2271	2363	2455	2547	2639	2731	2823	2915	3007	
24	3099	3191	3283	3375	3467	3559	3650	3742	3834	3926	
25	4018	4110	4202	4294	4386	4478	4570	4661	4753	4845	
26	4937	5029	5121	5213	5305	5397	5489	5580	5672	5764	
27	5856	5948	6040	6132	6224	6315	6407	6499	6591	6683	
28	6775	6867	6958	7050	7142	7234	7326	7418	7509	7601	
29	7693	7785	7877	7969	8060	8152	8244	8336	8428	8520	
4730	8611	8703	8795	8887	8979	9070	9162	9254	9346	9438	
31	9529	9621	9713	9805	9897	9988	0080	0172	0264	0356	
32	6750447	0539	0631	0723	0814	0906	0998	1090	1182	1273	
33	1365	1457	1549	1640	1732	1824	1916	2007	2099	2191	
34	2283	2374	2466	2558	2649	2741	2833	2925	3016	3108	
35	3200	3292	3383	3475	3567	3658	3750	3842	3934	4025	
36	4117	4209	4300	4392	4484	4575	4667	4759	4850	4942	
37	5034	5126	5217	5309	5401	5492	5584	5676	5767	5859	
38	5951	6042	6134	6226	6317	6409	6501	6592	6684	6775	
39	6867	6959	7050	7142	7234	7325	7417	7509	7600	7692	
4740	7783	7875	7967	8058	8150	8242	8333	8425	8516	8608	
41	8700	8791	8883	8974	9066	9158	9249	9341	9432	9524	
42	9615	9707	9799	9890	9982	0073	0165	0257	0348	0440	
43	6760531	0623	0714	0806	0897	0989	1081	1172	1264	1355	
44	1447	1538	1630	1721	1813	1905	1996	2088	2179	2271	
45	2382	2454	2545	2637	2728	2820	2911	3003	3094	3186	
46	3277	3369	3460	3552	3643	3735	3826	3918	4009	4101	
47	4192	4284	4375	4467	4558	4650	4741	4833	4924	5016	
48	5107	5199	5290	5382	5473	5564	5656	5747	5839	5930	
49	6023	6113	6205	6296	6387	6479	6570	6662	6753	6845	
4750	6936	7028	7119	7210	7302	7393	7485	7576	7667	7759	
51	7850	7942	8033	8125	8216	8307	8399	8490	8582	8673	
52	8764	8856	8947	9038	9130	9221	9313	9404	9496	9587	
53	9678	9770	9861	9952	0044	0135	0226	0318	0409	0500	
4760	5770593	0683	0774	0866	0957	1049	1140	1231	1323	1414	
55	1505	1597	1688	1779	1871	1962	2053	2145	2236	2327	
56	2418	2510	2601	2692	2784	2875	2966	3058	3149	3240	
57	3332	3423	3514	3605	3697	3788	3879	3971	4062	4153	
58	4265	4356	4447	4538	4629	4720	4811	4902	4993	5084	
59	5175	5266	5357	5448	5539	5630	5721	5812	5903	6004	
60	6114	6205	6296	6387	6478	6569	6660	6751	6842	6933	
61	7043	7134	7225	7316	7407	7498	7589	7680	7771	7862	
62	7991	8082	8173	8264	8355	8446	8537	8628	8719	8810	
63	8960	9051	9142	9233	9324	9415	9506	9597	9688	9779	
64	9869	9960	0051	0142	0233	0324	0415	0506	0597	0688	
65	0797	0888	0979	1070	1161	1252	1343	1434	1525	1616	
66	1745	1836	1927	2018	2109	2200	2291	2382	2473	2564	
67	2673	2764	2855	2946	3037	3128	3219	3310	3401	3492	
68	3600	3691	3782	3873	3964	4055	4146	4237	4328	4419	
69	4526	4617	4708	4799	4890	4981	5072	5163	5254	5345	
70	5472	5563	5654	5745	5836	5927	6018	6109	6200	6291	
71	6387	6478	6569	6660	6751	6842	6933	7024	7115	7206	
72	7317	7408	7499	7590	7681	7772	7863	7954	8045	8136	
73	8247	8338	8429	8520	8611	8702	8793	8884	8975	9066	
74	9157	9248	9339	9430	9521	9612	9703	9794	9885	9976	
75	0085	0176	0267	0358	0449	0540	0631	0722	0813	0904	
76	0995	1086	1177	1268	1359	1450	1541	1632	1723	1814	
77	1905	1996	2087	2178	2269	2360	2451	2542	2633	2724	
78	2815	2906	2997	3088	3179	3270	3361	3452	3543	3634	
79	3725	3816	3907	3998	4089	4180	4271	4362	4453	4544	
80	4635	4726	4817	4908	4999	5090	5181	5272	5363	5454	
81	5545	5636	5727	5818	5909	5990	6081	6172	6263	6354	
82	6445	6536	6627	6718	6809	6890	6981	7072	7163	7254	
83	7345	7436	7527	7618	7709	7790	7881	7972	8063	8154	
84	8245	8336	8427	8518	8609	8690	8781	8872	8963	9054	
85	9155	9246	9337	9428	9519	9600	9691	9782	9873	9964	
86	0075	0166	0257	0348	0439	0530	0621	0712	0803	0894	
87	0985	1076	1167	1258	1349	1440	1531	1622	1713	1804	
88	1895	1986	2077	2168	2259	2350	2441	2532	2623	2714	
89	2805	2896	2987	3078	3169	3260	3351	3442	3533	3624	
90	3715	3806	3897	3988	4079	4170	4261	4352	4443	4534	
91	4625	4716	4807	4898	4989	5080	5171	5262	5353	5444	
92	5535	5626	5717	5808	5899	5990	6081	6172	6263	6354	
93	6445	6536	6627	6718	6809	6890	6981	7072	7163	7254	
94	7345	7436	7527	7618	7709	7790	7881	7972	8063	8154	
95	8245	8336	8427	8518	8609	8690	8781	8872	8963	9054	
96	9155	9246	9337	9428	9519	9600	9691	9782	9873	9964	
97	0075	0166	0257	0348	0439	0530	0621	0712	0803	0894	
98	0985	1076	1167	1258	1349	1440	1531	1622	1713	1804	
99	1895	1986	2077	2168	2259	2350	2441	2532	2623	2714	

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4758	6774244	4836	4427	4518	4609	4701	4792	4883	4975	5066	
59	5157	5248	5340	5431	5522	5613	5705	5796	5887	5978	
4760	6070	6161	6252	6343	6434	6526	6627	6708	6799	6891	
61	6982	7073	7164	7255	7347	7438	7529	7620	7712	7803	
62	7894	7985	8076	8168	8259	8350	8441	8532	8623	8715	
63	8806	8897	8988	9079	9171	9262	9353	9444	9535	9626	
64	9718	9809	9900	9991	0082	0173	0264	0356	0447	0538	
65	6780829	0790	0811	0902	0994	1085	1176	1267	1358	1449	
66	1510	1632	1723	1814	1905	1996	2087	2178	2269	2360	
67	2452	2543	2634	2725	2816	2907	2998	3089	3180	3271	
68	3362	3454	3545	3636	3727	3818	3909	4000	4091	4182	
69	4273	4364	4455	4546	4637	4729	4820	4911	5002	5093	
4770	5184	5275	5366	5457	5548	5639	5730	5821	5912	6003	
71	6094	6183	6276	6367	6458	6549	6640	6731	6822	6913	
72	7004	7095	7186	7277	7368	7459	7550	7641	7732	7823	
73	7914	8005	8096	8187	8278	8369	8460	8551	8642	8733	
74	8824	8915	9006	9097	9188	9279	9370	9461	9552	9643	
75	9734	9825	9916	0007	0098	0188	0279	0370	0461	0552	
76	6790643	0734	0825	0916	1007	1098	1189	1280	1371	1461	
77	1552	1643	1734	1825	1916	2007	2098	2189	2280	2371	
78	2461	2552	2643	2734	2825	2916	3007	3098	3189	3279	
79	3370	3461	3552	3643	3734	3825	3916	4006	4097	4188	
4780	4279	4370	4461	4552	4642	4733	4824	4915	5006	5097	91
81	5187	5278	5369	5460	5551	5642	5732	5823	5914	6005	
82	6096	6187	6277	6368	6459	6550	6641	6731	6822	6913	
83	7001	7095	7185	7276	7367	7458	7549	7639	7730	7821	
84	7912	8002	8093	8184	8275	8366	8456	8547	8638	8729	
85	8819	8910	9001	9092	9183	9273	9364	9455	9545	9636	
86	9727	9818	9908	9999	0090	0181	0271	0362	0453	0544	
87	5600834	0725	0816	0906	0997	1088	1179	1269	1360	1451	
88	1541	1632	1723	1814	1904	1995	2086	2176	2267	2358	
89	2448	2539	2630	2720	2811	2902	2992	3083	3174	3264	
4790	3355	3446	3536	3627	3718	3808	3899	3990	4080	4171	
91	4262	4352	4443	4534	4624	4715	4806	4896	4987	5077	
92	5168	5259	5349	5440	5531	5621	5712	5802	5893	5984	
93	6074	6165	6256	6346	6437	6527	6618	6709	6799	6890	
94	6980	7071	7161	7252	7343	7433	7524	7614	7705	7796	
95	7886	7977	8067	8158	8248	8339	8430	8520	8611	8701	
96	8792	8882	8973	9063	9154	9244	9335	9426	9516	9607	
97	9697	9788	9878	9969	0059	0150	0240	0331	0421	0512	
98	6610602	0693	0783	0874	0964	1055	1145	1236	1327	1417	
99	1507	1598	1688	1779	1869	1960	2050	2141	2231	2322	
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01	3317	3408	3498	3588	3679	3769	3860	3950	4041	4131	
02	4222	4312	4402	4493	4583	4674	4764	4855	4945	5035	
03	5126	5216	5307	5397	5488	5578	5668	5759	5849	5940	
91	9	18	27	36	46	55	64	73	82		

No.	0	1	2	3	4	5	6	7	8	9	D.
4804	6816030	6120	6211	6301	6392	6482	6572	6663	6753	6844	
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06	7838	7928	8018	8109	8199	8289	8380	8470	8561	8651	
07	8741	8832	8922	9012	9103	9193	9283	9374	9464	9554	
08	9645	9735	9825	9916	0006	0096	0187	0277	0367	0457	
09	6820548	0638	0728	0819	0909	0999	1090	1180	1270	1360	
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13	4159	4249	4339	4429	4520	4610	4700	4790	4880	4971	
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21	1371	1461	1551	1642	1732	1822	1912	2002	2092	2182	
22	2272	2362	2452	2542	2632	2722	2812	2902	2993	3083	
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24	4073	4163	4253	4343	4433	4523	4613	4703	4793	4883	
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26	5873	5963	6053	6143	6233	6323	6413	6503	6593	6683	
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28	7673	7763	7853	7943	8033	8123	8212	8302	8392	8482	
29	8572	8662	8752	8842	8932	9022	9112	9202	9291	9381	
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31	6840370	0460	0550	0640	0730	0820	0910	1000	1089	1179	
32	1269	1359	1449	1539	1629	1719	1808	1898	1988	2078	
33	2168	2258	2348	2438	2527	2617	2707	2797	2887	2977	
34	3066	3156	3246	3336	3426	3516	3605	3695	3785	3875	
35	3965	4055	4144	4234	4324	4414	4504	4594	4683	4773	
36	4863	4953	5043	5132	5222	5312	5402	5492	5581	5671	
37	5761	5851	5940	6030	6120	6210	6300	6389	6479	6569	
38	6659	6748	6838	6928	7018	7107	7197	7287	7377	7466	
39	7556	7646	7736	7825	7915	8005	8095	8184	8274	8364	
4840	8454	8543	8633	8723	8813	8902	8992	9082	9171	9261	
41	9351	9441	9530	9620	9710	9799	9889	9979	0068	0158	
42	6850248	0338	0427	0517	0607	0696	0786	0876	0965	1055	
43	1145	1234	1324	1414	1503	1593	1683	1772	1862	1952	
44	2041	2131	2221	2310	2400	2490	2579	2669	2759	2848	
45	2938	3027	3117	3207	3296	3386	3476	3565	3655	3744	
46	3834	3924	4013	4103	4193	4282	4372	4461	4551	4641	
47	4730	4820	4909	4999	5089	5178	5268	5357	5447	5537	
48	5636	5716	5805	5895	5984	6074	6164	6253	6343	6432	
49	6522	6611	6701	6791	6880	6970	7059	7149	7238	7328	
90											
90	9	18	27	36	45	54	63	72	81		

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4850	6857417	7507	7866	7668	7776	7865	7955	8044	8134	8223	
51	8313	8403	8493	8581	8671	8760	8850	8939	9029	9116	
52	9208	9297	9387	9476	9566	9655	9745	9834	9924	0013	
53	6860103	0192	0282	0371	0461	0550	0640	0729	0819	0908	
54	0998	1087	1177	1266	1356	1445	1535	1624	1713	1803	
55	1892	1982	2071	2161	2250	2340	2430	2518	2608	2697	
56	2787	2876	2966	3055	3145	3234	3323	3413	3503	3592	
57	3681	3770	3860	3949	4039	4128	4217	4307	4396	4486	
58	4575	4665	4754	4843	4933	5022	5111	5201	5290	5380	
59	5469	5558	5648	5737	5826	5916	6005	6095	6184	6273	
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61	7256	7346	7435	7524	7614	7703	7792	7882	7971	8060	
62	8150	8239	8328	8418	8507	8596	8685	8775	8864	8953	
63	9043	9132	9221	9311	9400	9489	9578	9668	9757	9846	
64	9936	0025	0114	0204	0293	0382	0471	0561	0650	0739	
65	6870828	0918	1007	1096	1186	1275	1364	1453	1543	1632	
66	1721	1810	1900	1989	2078	2167	2257	2346	2435	2524	
67	2613	2703	2792	2881	2970	3060	3149	3238	3327	3416	
68	3506	3595	3684	3773	3863	3952	4041	4130	4219	4309	
69	4398	4487	4576	4665	4755	4844	4933	5022	5111	5200	
4870	5290	5379	5468	5557	5646	5735	5825	5914	6003	6092	
71	6181	6270	6360	6449	6538	6627	6716	6805	6895	6984	
72	7073	7162	7251	7340	7429	7518	7608	7697	7786	7875	
73	7964	8053	8142	8231	8321	8410	8499	8588	8677	8766	
74	8855	8944	9033	9123	9212	9301	9390	9479	9568	9657	
75	9746	9835	9924	0013	0103	0192	0281	0370	0459	0548	
76	6880637	0726	0815	0904	0993	1082	1171	1260	1349	1439	
77	1528	1617	1706	1795	1884	1973	2062	2151	2240	2329	
78	2418	2507	2596	2685	2774	2863	2952	3041	3130	3219	
79	3308	3397	3486	3575	3664	3753	3842	3931	4020	4109	
4880	4198	4287	4376	4465	4554	4643	4732	4821	4910	4999	
81	5088	5177	5266	5355	5444	5533	5622	5711	5800	5889	
82	5978	6067	6156	6245	6334	6423	6511	6600	6689	6778	
83	6867	6956	7045	7134	7223	7312	7401	7490	7579	7668	
84	7757	7846	7934	8023	8112	8201	8290	8379	8468	8557	
85	8646	8735	8823	8912	9001	9090	9179	9268	9357	9446	
86	9535	9624	9712	9801	9890	9979	0068	0157	0246	0335	
87	6890423	0512	0601	0690	0779	0868	0957	1045	1134	1223	
88	1312	1401	1490	1579	1667	1756	1845	1934	2023	2112	
89	2200	2289	2378	2467	2556	2645	2733	2822	2911	3000	
4890	3089	3177	3266	3355	3444	3533	3621	3710	3799	3888	
91	3977	4065	4154	4243	4332	4421	4509	4598	4687	4776	
92	4864	4953	5042	5131	5220	5308	5397	5486	5575	5663	
93	5752	5841	5930	6018	6107	6196	6285	6373	6462	6551	
94	6640	6728	6817	6906	6995	7083	7172	7261	7350	7438	
95	7527	7616	7704	7793	7882	7971	8059	8148	8237	8325	
89 9 18 27 36 45 53 62 71 80											

No.	0	1	2	3	4	5	6	7	8	9	D.
4896	6898414	8503	8591	8880	8769	8858	8946	9035	9124	9212	
97	9301	9390	9478	9567	9656	9744	9833	9922	0010	0099	
98	6900188	0276	0885	0454	0542	0631	0720	0808	0897	0986	
99	1074	1163	1252	1340	1429	1518	1606	1695	1784	1872	
4900	1961	2049	2138	2227	2315	2404	2493	2581	2670	2758	
01	2847	2936	3024	3113	3201	3290	3379	3467	3556	3644	
02	3733	3822	3910	3999	4087	4176	4265	4353	4442	4530	
03	4619	4708	4796	4885	4973	5061	5150	5239	5327	5416	
04	5505	5593	5682	5770	5859	5947	6036	6124	6213	6302	
05	6390	6479	6567	6656	6744	6833	6921	7010	7098	7187	
06	7275	7364	7452	7541	7630	7718	7807	7895	7984	8072	
07	8161	8249	8338	8426	8515	8603	8692	8780	8869	8957	
08	9046	9134	9223	9311	9399	9488	9576	9665	9753	9842	
09	9930	0019	0107	0196	0284	0373	0461	0550	0638	0726	
4910	6910815	0903	0992	1080	1169	1257	1346	1434	1522	1611	
11	1699	1788	1876	1965	2053	2141	2230	2318	2407	2495	
12	2584	2672	2760	2849	2937	3026	3114	3202	3291	3379	
13	3468	3556	3644	3733	3821	3910	3998	4086	4175	4263	
14	4352	4440	4528	4617	4705	4793	4882	4970	5058	5147	
15	5235	5324	5412	5500	5589	5677	5765	5854	5942	6030	
16	6119	6207	6295	6384	6472	6560	6649	6737	6825	6914	
17	7002	7090	7179	7267	7355	7444	7532	7620	7709	7797	
18	7885	7974	8062	8150	8238	8327	8415	8503	8592	8680	
19	8768	8857	8945	9033	9121	9210	9298	9386	9474	9563	88
4920	9651	9739	9828	9916	0004	0092	0181	0269	0357	0445	
21	6920534	0622	0710	0798	0887	0975	1063	1151	1240	1328	
22	1416	1504	1593	1681	1769	1857	1945	2034	2122	2210	
23	2298	2387	2475	2563	2651	2739	2828	2916	3004	3092	
24	3180	3269	3357	3445	3533	3621	3710	3798	3886	3974	
25	4062	4151	4239	4327	4415	4503	4591	4680	4768	4856	
26	4944	5032	5120	5209	5297	5385	5473	5561	5649	5737	
27	5826	5914	6002	6090	6178	6266	6354	6443	6531	6619	
28	6707	6795	6883	6971	7059	7148	7236	7324	7412	7500	
29	7588	7676	7764	7853	7941	8029	8117	8205	8293	8381	
4930	8469	8557	8645	8733	8822	8910	8998	9086	9174	9262	
31	9350	9438	9526	9614	9702	9790	9878	9967	0055	0143	
32	6930231	0319	0407	0495	0583	0671	0759	0847	0935	1023	
33	1111	1199	1287	1375	1463	1551	1639	1727	1815	1903	
34	1991	2079	2167	2256	2344	2432	2520	2608	2696	2784	
35	2872	2960	3048	3136	3224	3312	3400	3488	3576	3664	
36	3752	3839	3927	4015	4103	4191	4279	4367	4455	4543	
37	4631	4719	4807	4895	4983	5071	5159	5247	5335	5423	
38	5511	5599	5687	5775	5863	5951	6039	6127	6215	6303	
39	6380	6478	6566	6654	6742	6830	6918	7006	7094	7182	
4940	7269	7357	7445	7533	7621	7709	7797	7885	7973	8061	
41	8149	8238	8324	8412	8500	8588	8676	8764	8852	8940	
88	88	9	18	26	33	44	58	62	70	79	

No.	0	1	2	3	4	5	6	7	8	9	D.
4942	6939027	9115	9203	9291	9379	9467	9555	9643	9730	9818	
43	9906	9994	0082	0170	0258	0345	0433	0521	0609	0697	
44	6940785	0872	0960	1048	1136	1224	1312	1399	1487	1575	
45	1663	1751	1839	1926	2014	2102	2190	2278	2366	2453	
46	2541	2629	2717	2805	2892	2980	3068	3156	3244	3331	
47	3419	3507	3595	3682	3770	3858	3946	4034	4121	4209	
48	4297	4385	4472	4560	4648	4736	4824	4911	4999	5087	
49	5175	5262	5350	5438	5526	5613	5701	5789	5877	5964	
4950	6052	6140	6227	6315	6403	6491	6578	6666	6754	6842	
51	6929	7017	7105	7192	7280	7368	7456	7543	7631	7719	
52	7806	7894	7982	8069	8157	8245	8333	8420	8508	8596	
53	8683	8771	8859	8946	9034	9122	9209	9297	9385	9472	
54	9560	9648	9735	9823	9911	9998	0086	0174	0261	0349	
55	6950437	0524	0612	0700	0787	0875	0962	1050	1138	1225	
56	1313	1401	1488	1576	1663	1751	1839	1926	2014	2102	
57	2189	2277	2364	2452	2540	2627	2715	2802	2890	2978	
58	3065	3153	3240	3328	3416	3503	3591	3678	3766	3854	
59	3941	4029	4116	4204	4291	4379	4467	4554	4642	4729	
4960	4817	4904	4992	5079	5167	5255	5342	5430	5517	5605	
61	5692	5780	5867	5955	6042	6130	6217	6305	6393	6480	
62	6568	6655	6743	6830	6918	7005	7093	7180	7268	7355	
63	7443	7530	7618	7705	7793	7880	7968	8055	8143	8230	
64	8318	8405	8493	8580	8668	8755	8843	8930	9018	9105	
65	9193	9280	9367	9455	9542	9630	9717	9805	9892	9980	
66	6960067	0155	0242	0330	0417	0504	0592	0679	0767	0854	
67	0942	1029	1116	1204	1291	1379	1466	1554	1641	1728	
68	1816	1903	1991	2078	2166	2253	2340	2428	2515	2603	
69	2690	2777	2865	2952	3040	3127	3214	3302	3389	3477	
4970	3564	3651	3739	3826	3913	4001	4088	4176	4263	4350	
71	4438	4525	4612	4700	4787	4874	4962	5049	5137	5224	
72	5311	5399	5486	5573	5661	5748	5835	5923	6010	6097	
73	6185	6272	6359	6447	6534	6621	6709	6796	6883	6970	
74	7058	7145	7232	7320	7407	7494	7582	7669	7756	7844	
75	7931	8018	8105	8193	8280	8367	8455	8542	8629	8716	
76	8804	8891	8978	9066	9153	9240	9327	9415	9502	9589	
77	9676	9764	9851	9938	0025	0113	0200	0287	0374	0462	
78	6970549	0636	0723	0811	0898	0985	1072	1160	1247	1334	
79	1421	1508	1596	1683	1770	1857	1945	2032	2119	2206	
4980	2293	2381	2468	2555	2642	2729	2817	2904	2991	3078	
81	3165	3253	3340	3427	3514	3601	3689	3776	3863	3950	
82	4037	4124	4212	4299	4386	4473	4560	4647	4735	4822	
83	4909	4996	5083	5170	5257	5345	5432	5519	5606	5693	
84	5780	5867	5955	6042	6129	6216	6303	6390	6477	6565	
85	6652	6739	6826	6913	7000	7087	7174	7261	7349	7436	
86	7523	7610	7697	7784	7871	7958	8045	8132	8220	8307	
87	8394	8481	8568	8655	8742	8829	8916	9003	9090	9177	
♠ { 87 ♠ { 9 | 17 | 26 | 35 | 44 | 52 | 61 | 70 | 78 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
4988	6979264	9352	9439	9526	9613	9700	9787	9874	9961	0048	
89	6980135	0222	0309	0396	0483	0570	0657	0744	0831	0918	
4990	1003	1092	1180	1267	1354	1441	1528	1615	1702	1789	
91	1876	1963	2050	2137	2224	2311	2398	2485	2572	2659	
92	2746	2833	2920	3007	3094	3181	3268	3355	3442	3529	
93	3616	3703	3790	3877	3964	4051	4138	4224	4311	4398	
94	4485	4572	4659	4746	4833	4920	5007	5094	5181	5268	
95	5355	5442	5529	5616	5703	5790	5877	5964	6050	6137	
96	6224	6311	6398	6485	6572	6659	6746	6833	6920	7007	
97	7093	7180	7267	7354	7441	7528	7615	7702	7789	7876	
98	7963	8049	8136	8223	8310	8397	8484	8571	8658	8744	
99	8831	8918	9005	9092	9179	9266	9353	9439	9526	9613	
5000	9700	9787	9874	9961	0047	0134	0221	0308	0395	0482	
01	6990569	0635	0742	0829	0916	1003	1090	1176	1263	1350	
02	1437	1524	1611	1697	1784	1871	1958	2045	2131	2218	
03	2305	2392	2479	2565	2652	2739	2826	2913	2999	3086	
04	3178	3260	3347	3433	3520	3607	3694	3780	3867	3954	
05	4041	4128	4214	4301	4388	4475	4561	4648	4735	4822	
06	4908	4995	5082	5169	5255	5342	5429	5516	5602	5689	
07	5776	5863	5949	6036	6123	6210	6296	6383	6470	6556	
08	6643	6730	6817	6903	6990	7077	7163	7250	7337	7424	
09	7510	7597	7684	7770	7857	7944	8031	8117	8204	8291	
5010	8377	8464	8551	8637	8724	8811	8897	8984	9071	9157	
11	9244	9331	9417	9504	9591	9677	9764	9851	9937	0024	87
12	7000111	0197	0264	0371	0457	0544	0630	0717	0804	0890	
13	0977	1064	1150	1237	1324	1410	1497	1583	1670	1757	
14	1843	1930	2017	2103	2190	2276	2363	2450	2536	2623	
15	2709	2796	2883	2969	3056	3142	3229	3316	3402	3489	
16	3575	3662	3748	3835	3922	4008	4095	4181	4268	4354	
17	4441	4528	4614	4701	4787	4874	4960	5047	5133	5220	
18	5307	5393	5480	5566	5653	5739	5826	5912	5999	6085	
19	6172	6258	6345	6432	6518	6605	6691	6778	6864	6951	
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21	7902	7989	8075	8162	8248	8335	8421	8508	8594	8681	
22	8767	8854	8940	9027	9113	9199	9286	9372	9459	9545	
23	9632	9718	9805	9891	9978	0064	0151	0237	0323	0410	
24	7010496	0583	0669	0756	0842	0929	1015	1101	1188	1274	
25	1361	1447	1534	1620	1706	1793	1879	1966	2052	2138	
26	2225	2311	2398	2484	2570	2657	2743	2830	2916	3002	
27	3089	3175	3262	3348	3434	3521	3607	3694	3780	3866	
28	3953	4039	4125	4212	4298	4385	4471	4557	4644	4730	
29	4816	4903	4989	5075	5162	5248	5334	5421	5507	5594	
5030	5680	5766	5853	5939	6025	6112	6198	6284	6371	6457	
31	6543	6629	6716	6802	6888	6975	7061	7147	7234	7320	
32	7406	7493	7579	7665	7752	7838	7924	8010	8097	8183	
33	8269	8356	8442	8528	8614	8701	8787	8873	8960	9046	
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No.	0	1	2	3	4	5	6	7	8	9	D.
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35	9995	0081	0167	0254	0340	0426	0512	0598	0685	0771	
36	7020857	0943	1030	1116	1202	1288	1375	1461	1547	1633	
37	1720	1806	1892	1978	2064	2151	2237	2323	2409	2495	
38	2582	2668	2754	2840	2926	3013	3099	3185	3271	3357	
39	3444	3530	3616	3702	3788	3874	3961	4047	4133	4219	
5040	4305	4392	4478	4564	4650	4736	4822	4909	4995	5081	
41	5167	5253	5339	5425	5512	5598	5684	5770	5856	5942	
42	6028	6115	6201	6287	6373	6459	6545	6631	6717	6804	
43	6890	6976	7062	7148	7234	7320	7406	7492	7579	7665	
44	7751	7837	7923	8009	8095	8181	8267	8353	8440	8526	
45	8612	8698	8784	8870	8956	9042	9128	9214	9300	9386	
46	9472	9559	9645	9731	9817	9903	9989	0075	0161	0247	
47	7030333	0419	0505	0591	0677	0763	0849	0935	1021	1107	
48	1193	1279	1366	1452	1538	1624	1710	1796	1882	1968	
49	2054	2140	2226	2312	2398	2484	2570	2656	2742	2828	
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51	3774	3860	3946	4032	4118	4204	4290	4376	4461	4547	
52	4633	4719	4805	4891	4977	5063	5149	5235	5321	5407	
53	5493	5579	5665	5751	5837	5923	6009	6095	6181	6266	
54	6352	6438	6524	6610	6696	6782	6868	6954	7040	7126	
55	7212	7298	7383	7469	7555	7641	7727	7813	7899	7985	
56	8071	8157	8242	8328	8414	8500	8586	8672	8758	8844	
57	8930	9015	9101	9187	9273	9359	9445	9531	9617	9702	
58	9788	9874	9960	0046	0132	0218	0303	0389	0475	0561	
59	7040647	0733	0818	0904	0990	1076	1162	1248	1334	1419	
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61	2363	2449	2535	2621	2707	2792	2878	2964	3050	3136	
62	3221	3307	3393	3479	3565	3650	3736	3822	3908	3993	
63	4079	4165	4251	4337	4422	4508	4594	4680	4765	4851	
64	4937	5023	5108	5194	5280	5366	5452	5537	5623	5709	
65	5794	5880	5966	6052	6137	6223	6309	6395	6480	6566	
66	6652	6738	6823	6909	6995	7080	7166	7252	7338	7423	
67	7509	7595	7680	7766	7852	7938	8023	8109	8195	8280	
68	8366	8452	8537	8623	8709	8795	8880	8966	9052	9137	
69	9223	9309	9394	9480	9566	9651	9737	9823	9908	9994	
5070	7050080	0165	0251	0337	0422	0508	0594	0679	0765	0850	
71	0936	1022	1107	1193	1279	1364	1450	1536	1621	1707	
72	1792	1878	1964	2049	2135	2221	2306	2392	2477	2563	
73	2649	2734	2820	2905	2991	3077	3162	3248	3333	3419	
74	3505	3590	3676	3761	3847	3933	4018	4104	4189	4275	
75	4360	4446	4532	4617	4703	4788	4874	4959	5045	5131	
76	5216	5302	5387	5473	5558	5644	5729	5815	5901	5986	
77	6072	6157	6243	6328	6414	6499	6585	6670	6756	6841	
78	6927	7012	7098	7184	7269	7355	7440	7526	7611	7697	
79	7782	7868	7953	8039	8124	8210	8295	8381	8466	8552	
८ { 86 ८ { 9 17 26 34 43 52 60 69 77											

No.	0	1	2	3	4	5	6	7	8	9	D.
5080	7058637	8728	8808	8894	8979	9065	9150	9236	9321	9406	
81	9492	9577	9663	9748	9834	9919	0005	0090	0176	0261	
82	7060347	0432	0518	0603	0688	0774	0859	0945	1030	1116	
83	1201	1287	1372	1457	1543	1628	1714	1799	1885	1970	
84	2055	2141	2226	2312	2397	2483	2568	2653	2739	2824	
85	2910	2995	3080	3166	3251	3337	3422	3507	3593	3678	
86	3764	3849	3934	4020	4105	4190	4276	4361	4447	4532	
87	4617	4703	4788	4873	4959	5044	5130	5215	5300	5386	
88	5471	5556	5642	5727	5812	5898	5983	6068	6154	6239	
89	6325	6410	6495	6581	6666	6751	6837	6922	7007	7092	
5090	7178	7263	7348	7434	7519	7604	7690	7775	7860	7946	
91	8031	8116	8202	8287	8372	8457	8543	8628	8713	8799	
92	8884	8969	9055	9140	9225	9310	9396	9481	9566	9651	
93	9737	9822	9907	9993	0078	0163	0248	0334	0419	0504	
94	7070589	0675	0760	0845	0930	1016	1101	1186	1271	1357	
95	1442	1527	1612	1698	1783	1868	1953	2039	2124	2209	
96	2294	2379	2465	2550	2635	2720	2805	2891	2976	3061	
97	3146	3232	3317	3402	3487	3572	3658	3743	3828	3913	
98	3998	4083	4169	4254	4339	4424	4509	4595	4680	4765	
99	4850	4935	5020	5106	5191	5276	5361	5446	5531	5617	
5100	5702	5787	5872	5957	6042	6128	6213	6298	6383	6468	
01	6553	6638	6724	6809	6894	6979	7064	7149	7234	7319	
02	7405	7490	7575	7660	7745	7830	7915	8000	8085	8171	
03	8256	8341	8426	8511	8596	8681	8766	8851	8936	9022	
04	9107	9192	9277	9362	9447	9532	9617	9702	9787	9872	
05	9957	0043	0128	0213	0298	0383	0468	0553	0638	0723	
06	7080808	0893	0978	1063	1148	1233	1318	1403	1488	1574	
07	1659	1744	1829	1914	1999	2084	2169	2254	2339	2424	
08	2509	2594	2679	2764	2849	2934	3019	3104	3189	3274	
09	3359	3444	3529	3614	3699	3784	3869	3954	4039	4124	
5110	4209	4294	4379	4464	4549	4634	4719	4804	4889	4974	
11	5059	5144	5229	5314	5399	5484	5569	5654	5739	5823	
12	5908	5993	6078	6163	6248	6333	6418	6503	6588	6673	
13	6758	6843	6928	7013	7098	7183	7268	7352	7437	7522	
14	7607	7692	7777	7862	7947	8032	8117	8202	8287	8371	
15	8456	8541	8626	8711	8796	8881	8966	9051	9136	9220	
16	9305	9390	9475	9560	9645	9730	9815	9900	9984	0069	
17	7090154	0239	0324	0409	0494	0579	0663	0748	0833	0918	
18	1003	1088	1173	1257	1342	1427	1512	1597	1682	1766	
19	1851	1936	2021	2106	2191	2275	2360	2445	2530	2615	
5120	2700	2784	2869	2954	3039	3124	3209	3293	3378	3463	
21	3548	3633	3717	3802	3887	3972	4057	4141	4226	4311	
22	4396	4481	4565	4650	4735	4820	4904	4989	5074	5159	
23	5244	5328	5413	5498	5583	5667	5752	5837	5922	6006	
24	6091	6176	6261	6345	6430	6515	6600	6684	6769	6854	
25	6939	7023	7108	7193	7278	7362	7447	7532	7617	7701	
85 { 9 | 17 | 26 | 34 | 43 | 51 | 60 | 68 | 77 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
5126	7097786	7871	7955	8040	8125	8210	8294	8379	8464	8548	
27	8633	8718	8803	8887	8972	9057	9141	9226	9311	9395	
28	9480	9565	9650	9734	9819	9904	9988	0073	0158	0242	
29	7100327	0412	0496	0581	0666	0750	0835	0920	1004	1089	
5130	1174	1258	1343	1428	1512	1597	1682	1766	1851	1936	
31	2020	2105	2189	2274	2359	2443	2528	2613	2697	2782	
32	2866	2951	3036	3120	3205	3290	3374	3459	3543	3628	
33	3713	3797	3882	3966	4051	4136	4220	4305	4389	4474	
34	4559	4643	4728	4812	4897	4982	5066	5151	5235	5320	
35	5404	5489	5574	5658	5743	5827	5912	5996	6081	6166	
36	6250	6335	6419	6504	6588	6673	6757	6842	6927	7011	
37	7096	7180	7265	7349	7434	7518	7603	7687	7772	7856	
38	7941	8026	8110	8195	8279	8364	8448	8533	8617	8702	
39	8786	8871	8955	9040	9124	9209	9293	9378	9462	9547	
5140	9631	9716	9800	9885	9969	0054	0138	0223	0307	0392	
41	7110476	0561	0645	0729	0814	0898	0983	1067	1152	1236	
42	1321	1405	1490	1574	1659	1743	1827	1912	1996	2081	
43	2165	2250	2334	2419	2503	2587	2672	2756	2841	2925	
44	3010	3094	3178	3263	3347	3432	3516	3601	3685	3769	
45	3854	3938	4023	4107	4191	4276	4360	4445	4529	4613	
46	4698	4782	4867	4951	5035	5120	5204	5289	5373	5457	
47	5542	5626	5710	5795	5879	5964	6048	6132	6217	6301	
48	6385	6470	6554	6638	6723	6807	6892	6976	7060	7145	84
49	7229	7313	7398	7482	7566	7651	7735	7819	7904	7988	
5150	8072	8157	8241	8325	8410	8494	8578	8663	8747	8831	
51	8915	9000	9084	9168	9253	9337	9421	9506	9590	9674	
52	9759	9843	9927	0011	0096	0180	0264	0349	0433	0517	
53	7120601	0686	0770	0854	0939	1023	1107	1191	1276	1360	
54	1444	1528	1613	1697	1781	1865	1950	2034	2118	2202	
55	2287	2371	2455	2539	2624	2708	2792	2876	2961	3045	
56	3129	3213	3298	3382	3466	3550	3634	3719	3803	3887	
57	3971	4056	4140	4224	4308	4392	4477	4561	4645	4729	
58	4813	4898	4982	5066	5150	5234	5319	5403	5487	5571	
59	5655	5739	5824	5908	5992	6076	6160	6245	6329	6413	
5160	6497	6581	6665	6750	6834	6918	7002	7086	7170	7254	
61	7339	7423	7507	7591	7675	7759	7843	7928	8012	8096	
62	8180	8264	8348	8432	8517	8601	8685	8769	8853	8937	
63	9021	9105	9189	9274	9358	9442	9526	9610	9694	9778	
64	9862	9946	0031	0115	0199	0283	0367	0451	0535	0619	
65	7130703	0787	0871	0956	1040	1124	1208	1292	1376	1460	
66	1544	1628	1712	1796	1880	1964	2048	2132	2217	2301	
67	2385	2469	2553	2637	2721	2805	2889	2973	3057	3141	
68	3225	3309	3393	3477	3561	3645	3729	3813	3897	3981	
69	4065	4149	4233	4317	4401	4485	4569	4653	4737	4821	
5170	4905	4989	5073	5157	5241	5325	5409	5493	5577	5661	
71	5745	5829	5913	5997	6081	6165	6249	6333	6417	6501	
84 { 8 | 17 | 25 | 34 | 42 | 50 | 59 | 67 | 76 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
5172	7136585	6669	6753	6837	6921	7005	7089	7173	7257	7341	
73	7425	7509	7593	7677	7761	7845	7928	8012	8096	8180	
74	8264	8348	8432	8516	8600	8684	8768	8852	8936	9020	
75	9104	9187	9271	9355	9439	9523	9607	9691	9775	9859	
76	9943	0027	0110	0194	0278	0362	0446	0530	0614	0698	
77	7140782	0866	0949	1033	1117	1201	1285	1369	1453	1537	
78	1620	1704	1788	1872	1956	2040	2124	2208	2291	2375	
79	2459	2543	2627	2711	2795	2878	2962	3046	3130	3214	
5180	3298	3381	3465	3549	3633	3717	3801	3884	3968	4052	
81	4136	4220	4304	4387	4471	555	4639	4723	4806	4890	
82	4974	5058	5142	5226	5309	393	5477	5561	5645	5728	
83	5812	5896	5980	6063	6147	6231	6315	6399	6482	6566	
84	6650	6734	6817	6901	6985	7069	7153	7236	7320	7404	
85	7488	7571	7655	7739	7823	7906	7990	8074	8158	8241	
86	8325	8409	8493	8576	8660	8744	8828	8911	8995	9079	
87	9162	9246	9330	9414	9497	9581	9665	9749	9832	9916	
88	7150000	0083	0167	0251	0335	0418	0502	0586	0669	0753	
89	0837	0920	1004	1088	1171	1255	1339	1423	1506	1590	
5190	1674	1757	1841	1925	2008	2092	2176	2259	2343	2427	
91	2510	2594	2678	2761	2845	2929	3012	3096	3180	3263	
92	3347	3430	3514	3598	3681	3765	3849	3932	4016	4100	
93	4183	4267	4350	4434	4518	4601	4685	4769	4852	4936	
94	5019	5103	5187	5270	5354	5438	5521	5605	5688	5772	84
95	5856	5939	6023	6106	6190	6273	6357	6441	6524	6608	
96	6691	6775	6859	6942	7026	7109	7193	7276	7360	7444	
97	7527	7611	7694	7778	7861	7945	8029	8112	8196	8279	
98	8363	8446	8530	8613	8697	8780	8864	8948	9031	9115	
99	9198	9282	9365	9449	9532	9616	9699	9783	9866	9950	
5200	7160033	0117	0200	0284	0367	0451	0535	0618	0702	0785	
01	0869	0952	1036	1119	1203	1286	1370	1453	1537	1620	
02	1703	1787	1870	1954	2037	2121	2204	2288	2371	2455	
03	2538	2622	2705	2789	2872	2956	3039	3123	3206	3289	
04	3373	3456	3540	3623	3707	3790	3874	3957	4040	4124	
05	4207	4291	4374	4458	4541	4625	4708	4791	4875	4958	
06	5042	5125	5208	5292	5375	5459	5542	5626	5709	5792	
07	5876	5959	6043	6126	6209	6293	6376	6460	6543	6626	
08	6710	6793	6877	6960	7043	7127	7210	7293	7377	7460	
09	7544	7627	7710	7794	7877	7960	8044	8127	8211	8294	
5210	8377	8461	8544	8627	8711	8794	8877	8961	9044	9127	
11	9211	9294	9377	9461	9544	9627	9711	9794	9877	9961	
12	7170044	0127	0211	0294	0377	0461	0544	0627	0711	0794	
13	0877	0961	1044	1127	1210	1294	1377	1460	1544	1627	
14	1710	1794	1877	1960	2043	2127	2210	2293	2377	2460	
15	2543	2626	2710	2793	2876	2959	3043	3126	3209	3293	
16	3376	3459	3542	3626	3709	3792	3875	3959	4042	4125	
17	4208	4292	4375	4458	4541	4625	4708	4791	4874	4958	
♠ { 84 ♠ { 8 | 17 | 25 | 34 | 42 | 50 | 59 | 67 | 76 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
5218	7175041	5124	5207	5290	5374	5457	5540	5623	5707	5790	
19	5873	5956	6039	6123	6206	6289	6372	6455	6539	6622	
5220	6705	6788	6871	6955	7038	7121	7204	7287	7371	7454	
21	7537	7620	7703	7786	7870	7953	8036	8119	8202	8286	
22	8369	8452	8535	8618	8701	8784	8868	8951	9034	9117	
23	9200	9283	9367	9450	9533	9616	9699	9782	9865	9949	
24	7180032	0115	0198	0281	0364	0447	0530	0614	0697	0780	
25	0863	0946	1029	1112	1195	1279	1362	1445	1528	1611	
26	1694	1777	1860	1943	2026	2110	2193	2276	2359	2442	
27	2525	2608	2691	2774	2857	2940	3023	3107	3190	3273	
28	3356	3439	3522	3605	3688	3771	3854	3937	4020	4103	
29	4186	4269	4353	4436	4519	4602	4685	4768	4851	4934	
5230	5017	5100	5183	5266	5349	5432	5515	5598	5681	5764	
31	5847	5930	6013	6096	6179	6262	6345	6428	6511	6594	
32	6677	6760	6843	6926	7009	7092	7175	7258	7341	7424	
33	7507	7590	7673	7756	7839	7922	8005	8088	8171	8254	
34	8337	8420	8503	8586	8669	8752	8835	8918	9001	9084	
35	9167	9250	9333	9416	9499	9582	9665	9748	9830	9913	
36	9996	0079	0162	0245	0328	0411	0494	0577	0660	0743	
37	7190826	0909	0992	1075	1157	1240	1323	1406	1489	1572	
38	1655	1738	1821	1904	1987	2069	2152	2235	2318	2401	
39	2484	2567	2650	2733	2816	2898	2981	3064	3147	3230	
5240	3313	3396	3479	3562	3644	3727	3810	3893	3976	4059	83
41	4142	4224	4307	4390	4473	4556	4639	4722	4804	4887	
42	4970	5053	5136	5219	5302	5384	5467	5550	5633	5716	
43	5799	5881	5964	6047	6130	6213	6296	6378	6461	6544	
44	6627	6710	6792	6875	6958	7041	7124	7207	7289	7372	
45	7455	7538	7621	7703	7786	7869	7952	8034	8117	8200	
46	8283	8366	8448	8531	8614	8697	8780	8862	8945	9028	
47	9111	9193	9276	9359	9442	9524	9607	9690	9773	9856	
48	9938	0021	0104	0187	0269	0352	0435	0518	0600	0683	
49	7200766	0848	0931	1014	1097	1179	1262	1345	1428	1510	
5250	1593	1676	1758	1841	1924	2007	2089	2172	2255	2337	
51	2420	2503	2586	2668	2751	2834	2916	2999	3082	3164	
52	3247	3330	3413	3495	3578	3661	3743	3826	3909	3991	
53	4074	4157	4239	4322	4405	4487	4570	4653	4735	4818	
54	4901	4983	5066	5149	5231	5314	5397	5479	5562	5645	
55	5727	5810	5892	5975	6058	6140	6223	6306	6388	6471	
56	6554	6636	6719	6801	6884	6967	7049	7132	7215	7297	
57	7380	7462	7545	7628	7710	7793	7875	7958	8041	8123	
58	8206	8288	8371	8454	8536	8619	8701	8784	8867	8949	
59	9032	9114	9197	9279	9362	9445	9527	9610	9692	9775	
5260	9857	9940	0023	0105	0188	0270	0353	0435	0518	0600	
61	7210683	0766	0848	0931	1018	1096	1178	1261	1343	1426	
62	1508	1591	1674	1756	1839	1921	2004	2086	2169	2251	
63	2334	2416	2499	2581	2664	2746	2829	2911	2994	3076	
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83 { 8 { 17 { 25 { 33 { 42 { 50 { 58 { 66 { 75 {											

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5264	7213159	3241	3324	3406	3489	3571	3654	3736	3819	3901	
65	3984	4066	4149	4231	4314	4396	4479	4561	4644	4726	
66	4809	4891	4973	5056	5138	5221	5303	5386	5468	5551	
67	5633	5716	5798	5881	5963	6045	6128	6210	6293	6375	
68	6458	6540	6623	6705	6787	6870	6952	7035	7117	7200	
69	7282	7364	7447	7529	7612	7694	7777	7859	7941	8024	
5270	8106	8189	8271	8353	8436	8518	8601	8683	8765	8848	
71	8930	9013	9095	9177	9260	9342	9424	9507	9589	9672	
72	9754	9836	9919	0001	0084	0166	0248	0331	0413	0495	
73	7220578	0660	0742	0825	0907	0990	072	1154	1237	1319	
74	1401	1484	1566	1648	1731	1813	1895	1978	2060	2142	
75	2225	2307	2389	2472	2554	2636	2719	2801	2883	2966	
76	3048	3130	3212	3295	3377	3459	3542	3624	3706	3789	
77	3871	3953	4036	4118	4200	4282	4365	4447	4529	4612	
78	4694	4776	4858	4941	5023	5105	5188	5270	5352	5434	
79	5517	5599	5681	5763	5846	5928	6010	6092	6175	6257	
5280	6339	6421	6504	6586	6668	6750	6833	6915	6997	7079	
81	7162	7244	7326	7408	7491	7573	7655	7737	7820	7902	
82	7984	8066	8148	8231	8313	8395	8477	8559	8642	8724	
83	8806	8888	8971	9053	9135	9217	9299	9382	9464	9546	
84	9628	9710	9792	9875	9957	0039	0121	0203	0286	0368	
85	7230450	0532	0614	0696	0779	0861	0943	1025	1107	1189	
86	1272	1354	1436	1518	1600	1682	1765	1847	1929	2011	
87	2093	2175	2257	2340	2422	2504	2586	2668	2750	2832	
88	2914	2997	3079	3161	3243	3325	3407	3489	3571	3654	
89	3736	3818	3900	3982	4064	4146	4228	4310	4393	4475	
5290	4557	4639	4721	4803	4885	4967	5049	5131	5213	5296	
91	5378	5460	5542	5624	5706	5788	5870	5952	6034	6116	
92	6198	6280	6362	6445	6527	6609	6691	6773	6855	6937	
93	7019	7101	7183	7265	7347	7429	7511	7593	7675	7757	
94	7839	7921	8003	8086	8167	8250	8332	8414	8496	8578	
95	8660	8742	8824	8906	8988	9070	9152	9234	9316	9398	
96	9480	9562	9644	9726	9808	9890	9972	0054	0136	0218	
97	7240300	0382	0464	0546	0628	0710	0792	0874	0956	1038	
98	1120	1202	1283	1365	1447	1529	1611	1693	1775	1857	
99	1939	2021	2103	2185	2267	2349	2431	2513	2595	2677	
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01	3578	3660	3742	3824	3906	3988	4070	4151	4233	4315	
02	4397	4479	4561	4643	4725	4807	4889	4971	5052	5134	
03	5216	5298	5380	5462	5544	5626	5708	5790	5871	5953	
04	6035	6117	6199	6281	6363	6445	6526	6608	6690	6772	
05	6854	6936	7018	7099	7181	7263	7345	7427	7509	7591	
06	7672	7754	7836	7918	8000	8082	8164	8245	8327	8409	
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08	9309	9391	9473	9555	9636	9718	9800	9882	9964	0045	
09	7250127	0209	0291	0373	0454	0536	0618	0700	0782	0863	
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12	2581	2662	2744	2826	2908	2989	3071	3153	3235	3316	
13	3398	3480	3562	3643	3725	3807	3889	3970	4052	4134	
14	4216	4297	4379	4461	4542	4624	4706	4788	4869	4951	
15	5033	5114	5196	5278	5360	5441	5523	5605	5686	5768	
16	5850	5931	6013	6095	6176	6258	6340	6422	6503	6585	
17	6667	6748	6830	6912	6993	7075	7157	7238	7320	7402	
18	7483	7565	7647	7728	7810	7892	7973	8055	8137	8218	
19	8300	8382	8463	8545	8626	8708	8790	8871	8953	9035	
5320	9116	9198	9280	9361	9443	9524	9606	9688	9769	9851	
21	9933	0014	0096	0177	0259	0341	0422	0504	0585	0667	
22	7260749	0830	0912	0994	1075	1157	1238	1320	1401	1483	
23	1565	1646	1728	1809	1891	1973	2054	2136	2217	2299	
24	2380	2462	2544	2625	2707	2788	2870	2951	3033	3115	
25	3196	3278	3359	3441	3522	3604	3685	3767	3849	3930	
26	4012	4093	4175	4256	4338	4419	4501	4582	4664	4745	
27	4827	4908	4990	5072	5153	5235	5316	5398	5479	5561	
28	5642	5724	5805	5887	5968	6050	6131	6213	6294	6376	
29	6457	6539	6620	6702	6783	6865	6946	7028	7109	7191	
5330	7272	7354	7435	7517	7598	7679	7761	7842	7924	8005	
31	8087	8168	8250	8331	8413	8494	8576	8657	8739	8820	
32	8901	8983	9064	9146	9227	9309	9390	9472	9553	9634	
33	9716	9797	9879	9960	0042	0123	0204	0286	0367	0449	82
34	7270530	0612	0693	0774	0856	0937	1019	1100	1181	1263	
35	1344	1426	1507	1588	1670	1751	1833	1914	1995	2077	
36	2158	2240	2321	2402	2484	2565	2647	2728	2809	2891	
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38	3786	3867	3948	4030	4111	4192	4274	4355	4437	4518	
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42	7039	7120	7201	7283	7364	7445	7527	7608	7689	7770	
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44	8664	8746	8827	8908	8990	9071	9152	9233	9315	9396	
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47	1102	1183	1264	1346	1427	1508	1589	1670	1752	1833	
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5350	3538	3619	3700	3781	3863	3944	4025	4106	4187	4268	
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52	5161	5242	5323	5404	5486	5567	5648	5729	5810	5891	
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54	6784	6865	6946	7027	7108	7189	7270	7351	7433	7514	
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5360	1648	1729	1810	1891	1972	2053	2134	2215	2296	2377	
61	2458	2539	2620	2701	2782	2863	2944	3025	3106	3187	
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63	4078	4159	4240	4321	4402	4483	4564	4645	4726	4807	
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65	5697	5778	5859	5940	6021	6101	6183	6264	6345	6426	
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67	7316	7397	7478	7559	7640	7721	7801	7882	7963	8044	
68	8125	8206	8287	8368	8449	8530	8610	8691	8772	8853	
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72	1360	1441	1522	1603	1683	1764	1845	1926	2007	2088	
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77	5400	5481	5562	5643	5723	5804	5885	5966	6046	6127	
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79	7015	7096	7177	7258	7338	7419	7500	7581	7661	7742	81
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82	9437	9518	9598	9679	9760	9840	9921	0002	0082	0163	
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89	5082	5162	5243	5324	5404	5485	5565	5646	5727	5807	
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43	8383	8463	8543	8623	8702	8782	8862	8942	9022	9101	
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56	8744	8823	8903	8982	9062	9142	9221	9301	9380	9460	
57	9540	9619	9699	9778	9858	9937	0017	0097	0176	0256	
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66	6696	6776	6855	6935	7014	7094	7173	7252	7332	7411	
67	7491	7570	7650	7729	7808	7888	7967	8047	8126	8206	
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71	7380667	0747	0826	0905	0985	1064	1143	1223	1302	1382	
72	1461	1540	1620	1699	1778	1858	1937	2016	2096	2175	
73	2254	2334	2413	2493	2572	2651	2731	2810	2889	2969	
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77	5427	5507	5586	5665	5745	5824	5903	5982	6062	6141	
78	6220	6300	6379	6458	6537	6617	6696	6775	6854	6934	
79	7013	7092	7172	7251	7330	7409	7488	7568	7647	7726	
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82	9390	9470	9549	9628	9707	9786	9866	9945	0024	0103	
83	7390182	0262	0341	0420	0499	0578	0658	0737	0816	0895	
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85	1766	1845	1925	2004	2083	2162	2241	2321	2400	2479	
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87	3350	3429	3508	3587	3666	3745	3824	3904	3983	4062	
88	4141	4220	4299	4378	4458	4537	4616	4695	4774	4853	
89	4932	5011	5091	5170	5249	5328	5407	5486	5565	5644	
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91	6514	6594	6673	6752	6831	6910	6989	7068	7147	7226	
92	7305	7384	7463	7543	7622	7701	7780	7859	7938	8017	
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02	5206	5285	5364	5443	5522	5601	5679	5758	5837	5916	
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21	7420177	0236	0315	0394	0473	0552	0631	0710	0789	0868	
22	0944	1023	1102	1181	1260	1339	1418	1497	1576	1655	
23	1750	1829	1908	1987	2066	2145	2224	2303	2382	2461	
24	2537	2616	2695	2774	2853	2932	3011	3090	3169	3248	
25	3324	3403	3482	3561	3640	3719	3798	3877	3956	4035	
26	4109	4188	4266	4345	4424	4503	4582	4661	4740	4819	
27	4899	4978	5057	5136	5215	5294	5373	5452	5531	5610	
28	5650	5729	5807	5886	5965	6044	6123	6202	6281	6360	
29	6466	6544	6623	6702	6780	6859	6937	7016	7094	7173	
5530	7251	7330	7408	7487	7566	7644	7722	7801	7880	7958	
31	8037	8115	8194	8272	8351	8429	8508	8586	8665	8743	
32	8822	8900	8979	9057	9136	9214	9293	9371	9450	9528	
33	9607	9685	9764	9842	9921	9999	0078	0156	0235	0313	
34	7430392	0470	0549	0627	0705	0784	0862	0941	1019	1098	
35	1176	1255	1333	1412	1490	1569	1647	1725	1804	1882	
36	1961	2039	2118	2196	2275	2353	2431	2510	2588	2667	
37	2745	2824	2902	2981	3059	3137	3216	3294	3373	3451	
38	3530	3608	3686	3765	3843	3922	4000	4078	4157	4235	
39	4314	4392	4470	4549	4627	4706	4784	4862	4941	5019	
A	79	6	16	24	32	40	47	55	63	71	

No.	0	1	2	3	4	5	6	7	8	9	D.
5540	7435098	5176	5254	5333	5411	5490	5568	5646	5725	5803	
41	5882	5960	6038	6117	6195	6273	6352	6430	6508	6587	
42	6665	6744	6822	6900	6979	7057	7135	7214	7292	7370	
43	7449	7527	7605	7684	7762	7841	7919	7997	8076	8154	
44	8232	8311	8389	8467	8546	8624	8702	8781	8859	8937	
45	9016	9094	9172	9250	9329	9407	9485	9564	9642	9720	
46	9799	9877	9955	0034	0112	0190	0268	0347	0425	0503	
47	7440582	0600	0738	0817	0895	0973	1051	1130	1208	1286	
48	1365	1443	1521	1599	1678	1756	1834	1912	1991	2069	
49	2147	2226	2304	2382	2460	2538	2617	2695	2773	2852	
5550	2930	3008	3086	3165	3243	3321	3399	3478	3556	3634	
51	3712	3791	3869	3947	4025	4103	4182	4260	4338	4416	
52	4495	4573	4651	4729	4807	4886	4964	5042	5120	5199	
53	5277	5355	5433	5511	5590	5668	5746	5824	5902	5981	
54	6059	6137	6215	6293	6372	6450	6528	6606	6684	6762	
55	6841	6919	6997	7075	7153	7232	7310	7388	7466	7544	
56	7622	7701	7779	7857	7935	8013	8091	8170	8248	8326	
57	8404	8482	8560	8638	8717	8795	8873	8951	9029	9107	
58	9185	9264	9342	9420	9498	9576	9654	9732	9810	9889	
59	9967	0045	0123	0201	0279	0357	0435	0514	0592	0670	
5560	7450748	0826	0904	0982	1060	1138	1217	1295	1373	1451	
61	1529	1607	1685	1763	1841	1919	1998	2076	2154	2232	
62	2310	2388	2466	2544	2622	2700	2778	2856	2934	3013	
63	3091	3169	3247	3325	3403	3481	3559	3637	3715	3793	
64	3871	3949	4027	4105	4183	4261	4340	4418	4496	4574	
65	4652	4730	4808	4886	4964	5042	5120	5198	5276	5354	
66	5432	5510	5588	5666	5744	5822	5900	5978	6056	6134	
67	6212	6290	6368	6446	6524	6602	6680	6758	6836	6914	
68	6992	7070	7148	7226	7304	7382	7460	7538	7616	7694	
69	7772	7850	7928	8006	8084	8162	8240	8318	8396	8474	
5570	8552	8630	8708	8786	8864	8942	9020	9098	9176	9254	
71	9332	9410	9487	9565	9643	9721	9799	9877	9955	0033	
72	7460111	0189	0267	0345	0423	0501	0579	0657	0735	0813	
73	0890	0968	1046	1124	1202	1280	1358	1436	1514	1592	
74	1670	1748	1825	1903	1981	2059	2137	2215	2293	2371	
75	2449	2527	2605	2682	2760	2838	2916	2994	3072	3150	
76	3228	3306	3383	3461	3539	3617	3695	3773	3851	3929	
77	4006	4084	4162	4240	4318	4396	4474	4552	4629	4707	
78	4785	4863	4941	5019	5097	5174	5252	5330	5408	5486	
79	5564	5641	5719	5797	5875	5953	6031	6108	6186	6264	
5580	6342	6420	6498	6575	6653	6731	6809	6887	6965	7042	
81	7120	7198	7276	7354	7431	7509	7587	7665	7743	7821	
82	7898	7976	8054	8132	8210	8287	8365	8443	8521	8598	
83	8676	8754	8832	8910	8987	9065	9143	9221	9299	9376	
84	9454	9532	9610	9687	9765	9843	9921	9998	0076	0154	
85	7470232	0310	0387	0465	0543	0621	0698	0776	0854	0932	
78 { 8 16 23 31 39 47 55 62 70											

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5386	7471009	1087	1165	1243	1320	1398	1476	1554	1631	1709	
87	1787	1864	1942	2020	2098	2175	2253	2331	2409	2486	
88	2564	2642	2719	2797	2875	2953	3030	3108	3186	3263	
89	3341	3419	3497	3574	3652	3730	3807	3885	3963	4040	
5590	4118	4196	4273	4351	4429	4507	4584	4662	4740	4817	
91	4895	4973	5050	5128	5206	5283	5361	5439	5516	5594	
92	5672	5749	5827	5905	5982	6060	6138	6215	6293	6371	
93	6448	6526	6603	6681	6759	6836	6914	6992	7069	7147	
94	7223	7302	7380	7458	7535	7613	7690	7768	7846	7923	
95	8001	8079	8156	8234	8311	8389	8467	8544	8622	8699	
96	8777	8855	8932	9010	9087	9165	9243	9320	9398	9475	
97	9553	9631	9708	9786	9863	9941	0019	0096	0174	0251	
98	7480329	0407	0484	0562	0639	0717	0794	0872	0950	1027	
99	1105	1182	1260	1337	1415	1492	1570	1648	1725	1803	
5600	1880	1958	2035	2113	2190	2268	2346	2423	2501	2578	
01	2656	2733	2811	2888	2966	3043	3121	3198	3276	3354	
02	3431	3509	3586	3664	3741	3819	3896	3974	4051	4129	
03	4206	4284	4361	4439	4516	4594	4671	4749	4826	4904	
04	4981	5059	5136	5214	5291	5369	5446	5524	5601	5679	
05	5756	5834	5911	5989	6066	6144	6221	6299	6376	6453	
06	6531	6608	6686	6763	6841	6918	6996	7073	7151	7228	
07	7306	7383	7460	7538	7615	7693	7770	7848	7925	8003	
08	8080	8157	8235	8312	8390	8467	8545	8622	8700	8777	
09	8854	8932	9009	9087	9164	9242	9319	9396	9474	9551	78
5610	9629	9706	9783	9861	9938	0016	0093	0170	0248	0325	
11	7490403	0460	0537	0615	0692	0770	0847	0924	1002	1079	
12	1177	1254	1331	1409	1486	1564	1641	1718	1796	1873	
13	1950	2028	2105	2183	2260	2337	2415	2492	2569	2647	
14	2724	2801	2879	2956	3034	3111	3188	3266	3343	3420	
15	3498	3575	3652	3730	3807	3884	3962	4039	4116	4194	
16	4271	4348	4426	4503	4580	4658	4735	4812	4890	4967	
17	5044	5122	5199	5276	5353	5431	5508	5585	5663	5740	
18	5817	5895	5972	6049	6127	6204	6281	6358	6436	6513	
19	6590	6668	6745	6822	6899	6977	7054	7131	7209	7286	
5620	7363	7440	7518	7595	7672	7750	7827	7904	7981	8059	
21	8136	8213	8290	8368	8445	8522	8599	8677	8754	8831	
22	8908	8986	9063	9140	9217	9295	9372	9449	9526	9604	
23	9681	9758	9835	9913	9990	0067	0144	0221	0299	0376	
24	7500453	0530	0608	0685	0762	0839	0916	0994	1071	1148	
25	1225	1302	1380	1457	1534	1611	1688	1766	1843	1920	
26	1997	2074	2152	2229	2306	2383	2460	2538	2615	2692	
27	2769	2846	2924	3001	3078	3155	3232	3309	3387	3464	
28	3541	3618	3695	3772	3850	3927	4004	4081	4158	4235	
29	4312	4390	4467	4544	4621	4698	4775	4853	4930	5007	
5630	5084	5161	5238	5315	5392	5470	5547	5624	5701	5778	
31	5855	5932	6010	6087	6164	6241	6318	6395	6472	6549	
78	8	16	23	31	39	47	55	62	70		

No.	0	1	2	3	4	5	6	7	8	9	D.
5632	7506626	6704	6781	6858	6935	7012	7089	7166	7243	7320	
33	7398	7475	7552	7629	7706	7783	7860	7937	8014	8091	
34	8168	8246	8323	8400	8477	8554	8631	8708	8785	8862	
35	8939	9016	9093	9170	9247	9325	9402	9479	9556	9633	
36	9710	9787	9864	9941	0018	0095	0172	0249	0326	0403	
37	7510480	0557	0634	0711	0789	0866	0943	1020	1097	1174	
38	1251	1328	1405	1482	1559	1636	1713	1790	1867	1944	
39	2021	2098	2175	2252	2329	2406	2483	2560	2637	2714	
5640	2791	2868	2945	3022	3099	3176	3253	3330	3407	3484	
41	3561	3638	3715	3792	3869	3946	4023	4100	4177	4254	
42	4331	4408	4485	4562	4639	4716	4793	4870	4947	5024	
43	5101	5177	5254	5331	5408	5485	5562	5639	5716	5793	
44	5870	5947	6024	6101	6178	6255	6332	6409	6486	6563	
45	6639	6716	6793	6870	6947	7024	7101	7178	7255	7332	
46	7409	7486	7563	7639	7716	7793	7870	7947	8024	8101	
47	8178	8255	8332	8409	8485	8562	8639	8716	8793	8870	
48	8947	9024	9101	9178	9254	9331	9408	9485	9562	9639	
49	9716	9793	9870	9946	0023	0100	0177	0254	0331	0408	
5650	7520484	0561	0638	0715	0792	0869	0946	1023	1099	1176	
51	1253	1330	1407	1484	1560	1637	1714	1791	1868	1945	
52	2022	2098	2175	2252	2329	2406	2483	2559	2636	2713	
53	2790	2867	2944	3020	3097	3174	3251	3328	3404	3481	
54	3558	3635	3712	3788	3865	3942	4019	4096	4172	4249	
55	4326	4403	4480	4556	4633	4710	4787	4864	4940	5017	
56	5094	5171	5248	5324	5401	5478	5555	5631	5708	5785	
57	5862	5939	6015	6092	6169	6246	6322	6399	6476	6553	
58	6629	6706	6783	6860	6936	7013	7090	7167	7243	7320	
59	7397	7474	7550	7627	7704	7781	7857	7934	8011	8088	
5660	8164	8241	8318	8394	8471	8548	8625	8701	8778	8855	
61	8932	9008	9085	9162	9238	9315	9392	9469	9545	9622	
62	9699	9775	9852	9929	0005	0082	0159	0236	0312	0389	
63	7530466	0542	0619	0696	0772	0849	0926	1002	1079	1156	
64	1232	1309	1386	1462	1539	1616	1692	1769	1846	1922	
65	1999	2076	2152	2229	2306	2382	2459	2536	2612	2689	
66	2766	2842	2919	2996	3072	3149	3226	3302	3379	3455	
67	3532	3609	3685	3762	3839	3915	3992	4069	4145	4222	
68	4298	4375	4452	4528	4605	4682	4758	4835	4911	4988	
69	5065	5141	5218	5294	5371	5448	5524	5601	5677	5754	
5670	5831	5907	5984	6060	6137	6214	6290	6367	6443	6520	
71	6596	6673	6750	6826	6903	6979	7056	7133	7209	7286	
72	7362	7439	7515	7592	7668	7745	7822	7898	7975	8051	
73	8128	8204	8281	8357	8434	8511	8587	8664	8740	8817	
74	8893	8970	9046	9123	9199	9276	9353	9429	9506	9582	
75	9659	9735	9812	9888	9965	0041	0118	0194	0271	0347	
76	7540424	0500	0577	0653	0730	0806	0883	0959	1036	1112	
77	1189	1265	1342	1418	1495	1571	1648	1724	1801	1877	
77											
77 { 8 { 15 { 23 { 31 { 39 { 46 { 54 { 62 { 69 {											

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5678	7541954	2030	2107	2183	2260	2336	2413	2489	2566	2642	
79	2719	2795	2872	2948	3025	3101	3178	3254	3330	3407	
5680	3483	3560	3636	3713	3789	3866	3942	4019	4095	4171	
81	4248	4324	4401	4477	4554	4630	4707	4783	4859	4936	
82	5012	5089	5165	5242	5318	5394	5471	5547	5624	5700	
83	5777	5853	5929	6006	6082	6159	6235	6311	6388	6464	
84	6541	6617	6694	6770	6846	6923	6999	7076	7152	7228	
85	7305	7381	7457	7534	7610	7687	7763	7839	7916	7992	
86	8069	8145	8221	8298	8374	8450	8527	8603	8680	8756	
87	8832	8909	8985	9061	9138	9214	9290	9367	9443	9520	
88	9596	9672	9749	9825	9901	9978	0054	0130	0207	0283	
89	7550359	0436	0512	0588	0665	0741	0817	0894	0970	1046	
5690	1123	1199	1275	1352	1428	1504	1581	1657	1733	1810	
91	1886	1962	2038	2115	2191	2267	2344	2420	2496	2573	
92	2649	2725	2802	2878	2954	3030	3107	3183	3259	3336	
93	3412	3488	3564	3641	3717	3793	3870	3946	4022	4098	
94	4175	4251	4327	4403	4480	4556	4632	4709	4785	4861	
95	4937	5014	5090	5166	5242	5319	5395	5471	5547	5624	
96	5700	5776	5852	5929	6005	6081	6157	6233	6310	6386	
97	6462	6538	6615	6691	6767	6843	6920	6996	7072	7148	
98	7224	7301	7377	7453	7529	7606	7682	7758	7834	7910	
99	7987	8063	8139	8215	8291	8368	8444	8520	8596	8672	
5700	8749	8825	8901	8977	9053	9130	9206	9282	9358	9434	
01	9510	9587	9663	9739	9815	9891	9967	0044	0120	0196	
02	7560272	0348	0424	0501	0577	0653	0729	0805	0881	0958	
03	1034	1110	1186	1262	1338	1414	1491	1567	1643	1719	
04	1795	1871	1947	2024	2100	2176	2252	2328	2404	2480	
05	2556	2633	2709	2785	2861	2937	3013	3089	3165	3242	
06	3318	3394	3470	3546	3622	3698	3774	3850	3927	4003	
07	4079	4155	4231	4307	4383	4459	4535	4611	4687	4764	
08	4840	4916	4992	5068	5144	5220	5296	5372	5448	5524	
09	5600	5677	5753	5829	5905	5981	6057	6133	6209	6285	
5710	6361	6437	6513	6589	6665	6741	6817	6893	6970	7046	
11	7122	7198	7274	7350	7426	7502	7578	7654	7730	7806	
12	7882	7958	8034	8110	8186	8262	8338	8414	8490	8566	
13	8642	8718	8794	8870	8946	9022	9098	9174	9250	9326	
14	9402	9478	9554	9630	9706	9782	9858	9934	0010	0086	
15	7570162	0238	0314	0390	0466	0542	0618	0694	0770	0846	
16	0922	0998	1074	1150	1226	1302	1378	1454	1530	1606	
17	1692	1758	1834	1910	1986	2062	2138	2214	2290	2366	
18	2442	2517	2593	2669	2745	2821	2897	2973	3049	3125	
19	3201	3277	3353	3429	3505	3581	3657	3733	3808	3884	
5720	3960	4036	4112	4188	4264	4340	4416	4492	4568	4644	
21	4719	4795	4871	4947	5023	5099	5175	5251	5327	5403	
22	5479	5554	5630	5706	5782	5858	5934	6010	6086	6162	
23	6237	6313	6389	6465	6541	6617	6693	6769	6845	6920	

16	8	15	23	30	38	46	53	61	68
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5724	7576996	7072	7148	7224	7300	7376	7451	7527	7603	7679	
25	7755	7831	7907	7982	8058	8134	8210	8286	8362	8438	
26	8513	8589	8665	8741	8817	8893	8968	9044	9120	9196	
27	9272	9348	9423	9499	9575	9651	9727	9803	9878	9954	
28	7580030	0106	0182	0258	0333	0409	0485	0561	0637	0712	
29	0788	0864	0940	1016	1091	1167	1243	1319	1395	1470	
5730	1546	1622	1698	1774	1849	1925	2001	2077	2153	2228	
31	2304	2380	2456	2531	2607	2683	2759	2835	2910	2986	
32	3062	3138	3213	3289	3365	3441	3516	3592	3668	3744	
33	3819	3895	3971	4047	4122	4198	4274	4350	4425	4501	
34	4577	4653	4728	4804	4880	4956	5031	5107	5183	5258	
35	5334	5410	5486	5561	5637	5713	5789	5864	5940	6016	
36	6091	6167	6243	6319	6394	6470	6546	6621	6697	6773	
37	6848	6924	7000	7076	7151	7227	7303	7378	7454	7530	
38	7605	7681	7757	7832	7908	7984	8060	8135	8211	8287	
39	8362	8438	8514	8589	8665	8741	8816	8892	8968	9043	
5740	9119	9195	9270	9346	9422	9497	9573	9649	9724	9800	
41	9875	9951	0027	0102	0178	0254	0329	0405	0481	0556	
42	7590632	0708	0783	0859	0934	1010	1086	1161	1237	1313	
43	1388	1464	1539	1615	1691	1766	1842	1917	1993	2069	
44	2144	2220	2296	2371	2447	2522	2598	2674	2749	2825	
45	2900	2976	3052	3127	3203	3278	3354	3429	3505	3581	
46	3656	3732	3807	3883	3959	4034	4110	4185	4261	4336	
47	4412	4488	4563	4639	4714	4790	4865	4941	5016	5092	
48	5168	5243	5319	5394	5470	5545	5621	5696	5772	5848	
49	5923	5999	6074	6150	6225	6301	6376	6452	6527	6603	
5750	6678	6754	6830	6905	6981	7056	7132	7207	7283	7358	
51	7434	7509	7585	7660	7736	7811	7887	7962	8038	8113	
52	8189	8264	8340	8415	8491	8566	8642	8717	8793	8868	
53	8944	9019	9095	9170	9246	9321	9397	9472	9548	9623	
54	9699	9774	9850	9925	0000	0076	0151	0227	0302	0378	
55	7600453	0529	0604	0680	0755	0831	0906	0981	1057	1132	
56	1208	1283	1359	1434	1510	1585	1661	1736	1811	1887	
57	1962	2038	2113	2189	2264	2339	2415	2490	2566	2641	
58	2717	2792	2867	2943	3018	3094	3169	3245	3320	3395	
59	3471	3546	3622	3697	3772	3848	3923	3999	4074	4149	
5760	4225	4300	4376	4451	4526	4602	4677	4753	4828	4903	
61	4979	5054	5130	5205	5280	5356	5431	5506	5582	5657	
62	5733	5808	5883	5959	6034	6109	6185	6260	6336	6410	
63	6486	6562	6637	6712	6788	6863	6938	7014	7089	7164	
64	7240	7315	7390	7466	7541	7616	7692	7767	7842	7918	
65	7993	8068	8144	8219	8294	8370	8445	8520	8596	8671	
66	8746	8822	8897	8972	9048	9123	9198	9274	9349	9424	
67	9500	9575	9650	9725	9801	9876	9951	0027	0102	0177	
68	7610253	0328	0403	0478	0554	0629	0704	0780	0855	0930	
69	1005	1081	1156	1231	1307	1382	1457	1532	1608	1683	

6	76	8	15	23	30	38	46	53	61	68
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No.	0	1	2	3	4	5	6	7	8	9	D.
5816	7646244	6319	6393	6468	6543	6617	6692	6767	6841	6916	
17	6991	7065	7140	7215	7289	7364	7439	7513	7588	7663	
18	7737	7812	7886	7961	8036	8110	8185	8260	8334	8409	
19	8484	8558	8633	8707	8782	8857	8931	9006	9081	9155	
5820	9230	9304	9379	9454	9528	9603	9678	9752	9827	9901	
21	9976	0051	0125	0200	0274	0349	0424	0498	0573	0647	
22	7650722	0797	0871	0946	1020	1095	1170	1244	1319	1393	
23	1468	1542	1617	1692	1766	1841	1915	1990	2065	2139	
24	2214	2288	2363	2437	2512	2586	2661	2736	2810	2885	
25	2959	3034	3108	3183	3258	3332	3407	3481	3556	3630	
26	3705	3779	3854	3928	4003	1 8	4152	4227	4301	4376	
27	4450	4525	4599	4674	4748	1 33	4897	4972	5046	5121	
28	5195	5270	5344	5419	5493	5568	5643	5717	5792	5866	
29	5941	6015	6090	6164	6239	6313	6388	6462	6537	6611	
5830	6686	6760	6835	6909	6984	7058	7132	7207	7281	7356	
31	7430	7505	7579	7654	7728	7803	7877	7952	8026	8101	
32	8175	8250	8324	8399	8473	8547	8622	8696	8771	8845	
33	8920	8994	9069	9143	9218	9292	9366	9441	9515	9590	
34	9664	9739	9813	9888	9962	0036	0111	0185	0260	0334	
35	7660409	0483	0557	0632	0706	0781	0855	0930	1004	1078	
36	1153	1227	1302	1376	1450	1525	1599	1674	1748	1823	
37	1897	1971	2046	2120	2195	2269	2343	2418	2492	2567	
38	2641	2715	2790	2864	2938	3013	3087	3162	3236	3310	74
39	3385	3459	3534	3608	3682	3757	3831	3905	3980	4054	
5840	4128	4203	4277	4352	4426	4500	4575	4649	4723	4798	
41	4872	4946	5021	5095	5169	5244	5318	5393	5467	5541	
42	5616	5690	5764	5839	5913	5987	6062	6136	6210	6285	
43	6359	6433	6508	6582	6656	6730	6805	6879	6953	7028	
44	7102	7176	7251	7325	7399	7474	7548	7622	7697	7771	
45	7845	7919	7994	8068	8142	8217	8291	8365	8440	8514	
46	8588	8662	8737	8811	8885	8960	9034	9108	9182	9257	
47	9331	9405	9479	9554	9628	9702	9777	9851	9925	9999	
48	7670074	0148	0222	0296	0371	0445	0519	0593	0668	0742	
49	0816	0890	0965	1039	1113	1187	1262	1336	1410	1484	
5850	1559	1633	1707	1781	1856	1930	2004	2078	2153	2227	
51	2301	2375	2449	2524	2598	2672	2746	2821	2895	2969	
52	3043	3117	3192	3266	3340	3414	3488	3563	3637	3711	
53	3785	3859	3934	4008	4082	4156	4230	4305	4379	4453	
54	4527	4601	4676	4750	4824	4898	4972	5046	5121	5195	
55	5269	5343	5417	5492	5566	5640	5714	5788	5862	5937	
56	6011	6085	6159	6233	6307	6381	6456	6530	6604	6678	
57	6752	6826	6901	6975	7049	7123	7197	7271	7345	7420	
58	7494	7568	7642	7716	7790	7864	7938	8013	8087	8161	
59	8235	8309	8383	8457	8531	8606	8680	8754	8828	8902	
5860	8976	9050	9124	9198	9273	9347	9421	9495	9569	9643	
61	9717	9791	9865	9940	0014	0088	0162	0236	0310	0384	
A { 74 B { 7 | 15 22 30 37 44 52 59 67 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
5908	7714405	4478	4552	4625	4699	4772	4846	4919	4993	5066	
09	5140	5213	5287	5360	5434	5507	5581	5654	5728	5801	
5910	5875	5948	6022	6095	6169	6242	6316	6389	6463	6536	
11	6610	6683	6757	6830	6903	6977	7050	7124	7197	7271	
12	7344	7418	7491	7565	7638	7712	7785	7858	7932	8005	
13	8079	8152	8226	8299	8373	8446	8519	8593	8666	8740	
14	8813	8887	8960	9034	9107	9180	9254	9327	9401	9474	
15	9547	9621	9694	9768	9841	9915	9988	0061	0135	0208	
16	7720282	0355	0428	0502	0575	0649	0722	0795	0869	0942	
17	1016	1089	1162	1236	1309	1382	1456	1529	1603	1676	
18	1750	1823	1896	1970	2043	2116	2190	2263	2337	2410	
19	2483	2557	2630	2704	2777	2850	2924	2997	3070	3144	
5920	3217	3290	3364	3437	3510	3584	3657	3731	3804	3877	
21	3951	4024	4097	4171	4244	4317	4391	4464	4537	4611	
22	4684	4757	4831	4904	4977	5051	5124	5197	5271	5344	
23	5417	5491	5564	5637	5711	5784	5857	5931	6004	6077	
24	6150	6224	6297	6370	6444	6517	6590	6664	6737	6810	
25	6884	6957	7030	7103	7177	7250	7323	7397	7470	7543	
26	7616	7690	7763	7836	7910	7983	8056	8129	8203	8276	
27	8349	8423	8496	8569	8642	8716	8789	8862	8935	9009	
28	9082	9155	9228	9302	9375	9448	9521	9595	9668	9741	
29	9815	9888	9961	0034	0107	0181	0254	0327	0400	0474	
5930	7730547	0620	0693	0767	0840	0913	0986	1060	1133	1206	
31	1279	1352	1426	1499	1572	1645	1719	1792	1865	1938	73
32	2011	2085	2158	2231	2304	2377	2451	2524	2597	2670	
33	2743	2817	2890	2963	3036	3109	3183	3256	3329	3402	
34	3475	3549	3622	3695	3768	3841	3915	3988	4061	4134	
35	4207	4280	4354	4427	4500	4573	4646	4719	4793	4866	
36	4938	5012	5085	5158	5232	5305	5378	5451	5524	5597	
37	5670	5744	5817	5890	5963	6036	6109	6183	6256	6329	
38	6402	6475	6548	6621	6694	6768	6841	6914	6987	7060	
39	7133	7206	7280	7353	7426	7499	7572	7645	7718	7791	
5940	7864	7938	8011	8084	8157	8230	8303	8376	8449	8522	
41	8596	8669	8742	8815	8888	8961	9034	9107	9180	9253	
42	9326	9400	9473	9546	9619	9692	9765	9838	9911	9984	
43	7740057	0130	0203	0277	0350	0423	0496	0569	0642	0715	
44	0788	0861	0934	1007	1080	1153	1226	1299	1372	1446	
45	1519	1592	1665	1738	1811	1884	1957	2030	2103	2176	
46	2249	2322	2395	2468	2541	2614	2687	2760	2833	2906	
47	2979	3052	3125	3198	3271	3345	3418	3491	3564	3637	
48	3710	3783	3856	3929	4002	4075	4148	4221	4294	4367	
49	4440	4513	4586	4659	4732	4805	4878	4951	5024	5097	
5950	5170	5243	5316	5389	5462	5535	5608	5681	5754	5827	
51	5900	5972	6045	6118	6191	6264	6337	6410	6483	6556	
52	6629	6702	6775	6848	6921	6994	7067	7140	7213	7286	
53	7359	7432	7505	7578	7651	7724	7797	7869	7942	8015	

No.	0	1	2	3	4	5	6	7	8	9	D.
5954	7748088	8161	8234	8307	8380	8453	8526	8599	8672	8745	
55	8818	8891	8964	9036	9109	9182	9255	9328	9401	9474	
56	9547	9620	9693	9766	9839	9911	9984	0057	0130	0203	
57	7750276	0349	0422	0495	0568	0641	0713	0786	0859	0932	
58	1005	1078	1151	1224	1297	1369	1442	1515	1588	1661	
59	1734	1807	1880	1952	2025	2098	2171	2244	2317	2390	
5960	2463	2535	2608	2681	2754	2827	2900	2973	3046	3118	
61	3191	3264	3337	3410	3483	3555	3628	3701	3774	3847	
62	3920	3993	4065	4138	4211	4284	4357	4430	4502	4575	
63	4648	4721	4794	4867	4939	5012	5085	5158	5231	5304	
64	5376	5449	5522	5595	5668	5740	5813	5886	5959	6032	
65	6104	6177	6250	6323	6396	6469	6541	6614	6687	6760	
66	6832	6905	6978	7051	7124	7196	7269	7342	7415	7488	
67	7560	7633	7706	7779	7851	7924	7997	8070	8143	8215	
68	8288	8361	8434	8506	8579	8652	8725	8798	8870	8943	
69	9016	9089	9161	9234	9307	9380	9452	9525	9598	9671	
5970	9743	9816	9889	9962	0034	0107	0180	0253	0325	0398	
71	7760471	0543	0616	0689	0762	0834	0907	0980	1053	1125	
72	1198	1271	1343	1416	1489	1562	1634	1707	1780	1852	
73	1925	1998	2071	2143	2216	2289	2361	2434	2507	2579	
74	2652	2725	2798	2870	2943	3016	3088	3161	3234	3306	
75	3379	3452	3524	3597	3670	3743	3815	3888	3961	4033	
76	4106	4179	4251	4324	4397	4469	4542	4615	4687	4760	
77	4833	4905	4978	5051	5123	5196	5269	5341	5414	5486	
78	5539	5632	5704	5777	5850	5922	5995	6068	6140	6213	
79	6286	6358	6431	6503	6576	6649	6721	6794	6867	6939	
5980	7012	7084	7157	7230	7302	7375	7448	7520	7593	7665	
81	7738	7811	7883	7956	8028	8101	8174	8246	8319	8391	
82	8464	8537	8609	8682	8754	8827	8900	8972	9045	9117	
83	9190	9263	9335	9408	9480	9553	9626	9698	9771	9843	
84	9916	9988	0061	0134	0206	0279	0351	0424	0496	0569	
85	7770642	0714	0787	0859	0932	1004	1077	1149	1222	1295	
86	1367	1440	1512	1585	1657	1730	1802	1875	1947	2020	
87	2093	2165	2238	2310	2383	2455	2528	2600	2673	2745	
88	2818	2890	2963	3035	3108	3181	3253	3326	3398	3471	
89	3543	3616	3688	3761	3833	3906	3978	4051	4123	4196	
5990	4268	4341	4413	4486	4558	4631	4703	4776	4848	4921	
91	4993	5066	5138	5211	5283	5356	5428	5501	5573	5646	
92	5718	5791	5863	5935	6008	6080	6153	6225	6298	6370	
93	6443	6515	6588	6660	6733	6805	6878	6950	7022	7095	
94	7167	7240	7312	7385	7457	7530	7602	7675	7747	7819	
95	7892	7964	8037	8109	8182	8254	8327	8399	8471	8544	
96	8616	8689	8761	8834	8906	8978	9051	9123	9196	9268	
97	9340	9413	9485	9558	9630	9703	9775	9847	9920	9992	
98	7780065	0137	0209	0282	0354	0427	0499	0571	0644	0716	
99	0789	0861	0933	1006	1078	1151	1223	1295	1368	1440	

73	7	15	22	29	37	44	51	58	66
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6000	7781513	1585	1657	1730	1802	1874	1947	2019	2092	2164	
01	2236	2309	2381	2453	2526	2598	2670	2743	2815	2888	
02	2960	3032	3105	3177	3249	3322	3394	3466	3539	3611	
03	3683	3756	3828	3900	3973	4045	4117	4190	4262	4335	
04	4407	4479	4552	4624	4696	4768	4841	4913	4985	5058	
05	5130	5202	5275	5347	5419	5492	5564	5636	5709	5781	
06	5853	5926	5998	6070	6143	6215	6287	6359	6432	6504	
07	6576	6649	6721	6793	6866	6938	7010	7082	7155	7227	
08	7299	7372	7444	7516	7588	7661	7733	7805	7877	7950	
09	8022	8094	8167	8239	8311	8384	8456	8528	8600	8672	
6010	8745	8817	8889	8962	9034	9106	9178	9251	9323	9395	
11	9467	9540	9612	9684	9756	9828	9901	9973	0045	0117	
12	7790190	0262	0334	0406	0479	0551	0623	0695	0768	0840	
13	0912	0984	1056	1129	1201	1273	1345	1418	1490	1562	
14	1634	1706	1779	1851	1923	1995	2067	2140	2212	2284	
15	2356	2429	2501	2573	2645	2717	2790	2862	2934	3006	
16	3078	3150	3223	3295	3367	3439	3511	3584	3656	3728	
17	3800	3872	3944	4017	4089	4161	4233	4305	4377	4450	
18	4522	4594	4666	4738	4810	4883	4955	5027	5099	5171	
19	5213	5316	5388	5460	5532	5604	5676	5748	5821	5893	
6020	5965	6037	6109	6181	6253	6326	6398	6470	6542	6614	
21	6686	6758	6831	6903	6975	7047	7119	7191	7263	7335	
22	7408	7480	7552	7624	7696	7768	7840	7912	7984	8057	
23	8129	8201	8273	8345	8417	8489	8561	8633	8705	8778	
24	8850	8922	8994	9066	9138	9210	9282	9354	9426	9498	
25	9571	9643	9715	9787	9859	9931	0003	0075	0147	0219	
26	7800291	0363	0435	0507	0580	0652	0724	0796	0868	0940	
27	1012	1084	1156	1228	1300	1372	1444	1516	1588	1660	
28	1732	1804	1877	1949	2021	2093	2165	2237	2309	2381	
29	2453	2525	2597	2669	2741	2813	2885	2957	3029	3101	
6030	3173	3245	3317	3389	3461	3533	3605	3677	3749	3821	
31	3893	3965	4037	4109	4181	4253	4325	4397	4469	4541	
32	4613	4685	4757	4829	4901	4973	5045	5117	5189	5261	
33	5333	5405	5477	5549	5621	5693	5765	5837	5909	5981	
34	6053	6125	6197	6269	6341	6413	6485	6557	6629	6701	
35	6773	6845	6917	6989	7061	7133	7204	7276	7348	7420	
36	7492	7564	7636	7708	7780	7852	7924	7996	8068	8140	
37	8212	8284	8356	8428	8500	8571	8643	8715	8787	8859	
38	8931	9003	9075	9147	9219	9291	9363	9435	9506	9578	
39	9650	9722	9794	9866	9938	0010	0082	0154	0226	0297	
6040	7810369	0441	0513	0585	0657	0729	0801	0873	0945	1016	
41	1088	1160	1232	1304	1376	1448	1520	1592	1663	1735	
42	1807	1879	1951	2023	2095	2167	2238	2310	2382	2454	
43	2526	2598	2670	2742	2813	2885	2957	3029	3101	3173	
44	3245	3316	3388	3460	3532	3604	3676	3748	3819	3891	
45	3963	4035	4107	4179	4250	4322	4394	4466	4538	4610	
A { 73 A { 7 14 22 29 36 43 50 58 65											

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6046	7814681	4753	4825	4897	4969	5041	5112	5184	5256	5328	
47	5400	5472	5543	5615	5687	5759	5831	5902	5974	6046	
48	6118	6190	6261	6333	6405	6477	6549	6620	6692	6764	
49	6836	6908	6979	7051	7123	7195	7267	7338	7410	7482	
6050	7554	7626	7697	7769	7841	7913	7984	8056	8128	8200	
51	8272	8343	8415	8487	8559	8630	8702	8774	8846	8917	
52	8989	9061	9133	9204	9276	9348	9420	9491	9563	9635	
53	9707	9778	9850	9922	9994	0065	0137	0209	0281	0352	
54	7820424	0496	0568	0639	0711	0783	0855	0926	0998	1070	
55	1141	1213	1285	1357	1428	1500	1572	1644	1715	1787	
56	1859	1930	2002	2074	2146	2217	2289	2361	2432	2504	
57	2576	2647	2719	2791	2863	2934	3006	3078	3149	3221	
58	3293	3364	3436	3508	3579	3651	3723	3794	3866	3938	
59	4010	4081	4153	4225	4296	4368	4440	4511	4583	4655	
6060	4726	4798	4870	4941	5013	5085	5156	5228	5300	5371	
61	5443	5514	5586	5658	5729	5801	5873	5944	6016	6088	
62	6159	6231	6303	6374	6446	6518	6589	6661	6732	6804	
63	6876	6947	7019	7091	7162	7234	7305	7377	7449	7520	
64	7592	7664	7735	7807	7878	7950	8022	8093	8165	8236	
65	8308	8380	8451	8523	8594	8666	8738	8809	8881	8952	
66	9021	9096	9167	9239	9310	9382	9454	9525	9597	9668	
67	9740	9812	9883	9955	0026	0098	0169	0241	0313	0384	
68	7830456	0527	0599	0670	0742	0814	0885	0957	1028	1100	72
69	1171	1243	1314	1386	1458	1529	1601	1672	1744	1815	
6070	1837	1958	2030	2102	2173	2245	2316	2388	2459	2531	
71	2602	2674	2745	2817	2888	2960	3032	3103	3175	3246	
72	3318	3389	3461	3532	3604	3675	3747	3818	3890	3961	
73	4033	4104	4176	4247	4319	4390	4462	4533	4605	4676	
74	4748	4819	4891	4962	5034	5105	5177	5248	5320	5391	
75	5463	5534	5606	5677	5749	5820	5892	5963	6035	6106	
76	6178	6249	6321	6392	6464	6535	6606	6678	6749	6821	
77	6892	6964	7035	7107	7178	7250	7321	7393	7464	7536	
78	7607	7678	7750	7821	7893	7964	8036	8107	8179	8250	
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88	4746	4818	4889	4960	5032	5103	5174	5246	5317	5388	
89	5460	5531	5602	5674	5745	5816	5888	5959	6030	6102	
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02	4722	4793	4864	4936	5007	5078	5149	5220	5291	5363	
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06	7568	7639	7710	7781	7852	7924	7995	8066	8137	8208	
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08	8990	9061	9132	9204	9275	9346	9417	9488	9559	9630	
09	9701	9772	9843	9915	9986	0057	0128	0199	0270	0341	
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11	1123	1194	1265	1336	1407	1478	1549	1620	1691	1762	
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18	6095	6166	6237	6308	6379	6450	6521	6592	6663	6734	
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22	8933	9004	9075	9146	9217	9288	9359	9430	9501	9572	
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25	1061	1132	1203	1274	1345	1415	1486	1557	1628	1699	
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33	6730	6800	6871	6942	7013	7084	7155	7225	7296	7367	
34	7438	7509	7579	7650	7721	7792	7863	7933	8004	8075	
35	8146	8216	8287	8358	8429	8500	8570	8641	8712	8783	
36	8854	8924	8995	9066	9137	9207	9278	9349	9420	9490	
37	9561	9632	9703	9774	9844	9915	9986	0057	0127	0198	
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6140	1684	1754	1825	1896	1967	2037	2108	2179	2250	2320		
41	2391	2462	2532	2603	2674	2745	2815	2886	2957	3027		
42	3098	3169	3240	3310	3381	3452	3522	3593	3664	3734		
43	3805	3876	3947	4017	4088	4159	4229	4300	4371	4441		
44	4512	4583	4653	4724	4795	4865	4936	5007	5078	5148		
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46	5926	5996	6067	6138	6208	6279	6350	6420	6491	6561		
47	6632	6703	6773	6844	6915	6985	7056	7127	7197	7268		
48	7339	7409	7480	7551	7621	7692	7762	7833	7904	7974		
49	8045	8116	8186	8257	8327	8398	8469	8539	8610	8681		
6150	8751	8822	8892	8963	9034	9104	9175	9245	9316	9387		
51	9457	9528	9598	9669	9740	9810	9881	9951	0022	0093		
52	7890	0163	0234	0304	0375	0446	0516	0587	0657	0728	0799	
53	0869	0940	1010	1081	1151	1222	1293	1363	1434	1504		
54	1575	1645	1716	1787	1857	1928	1998	2069	2139	2210		
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56	2986	3057	3127	3198	3268	3339	3409	3480	3550	3621		
57	3692	3762	3833	3903	3974	4044	4115	4185	4256	4326		
58	4397	4467	4538	4608	4679	4749	4820	4890	4961	5032		
59	5102	5173	5243	5314	5384	5455	5525	5596	5666	5737		
6160	5807	5878	5948	6019	6089	6160	6230	6301	6371	6442		
61	6512	6583	6653	6724	6794	6865	6935	7005	7076	7146	71	
62	7217	7287	7358	7428	7499	7569	7640	7710	7781	7851		
63	7922	7992	8063	8133	8204	8274	8344	8415	8485	8556		
64	8626	8697	8767	8838	8908	8979	9049	9119	9190	9260		
65	9331	9401	9472	9542	9613	9683	9753	9824	9894	9965		
66	7900	0035	0106	0176	0247	0317	0387	0458	0528	0599	0669	
67	0739	0810	0880	0951	1021	1092	1162	1232	1303	1373		
68	1444	1514	1584	1655	1725	1796	1866	1936	2007	2077		
69	2148	2218	2288	2359	2429	2500	2570	2640	2711	2781		
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71	3555	3626	3696	3767	3837	3907	3978	4048	4118	4189		
72	4259	4330	4400	4470	4541	4611	4681	4752	4822	4892		
73	4963	5033	5103	5174	5244	5315	5385	5455	5526	5596		
74	5666	5737	5807	5877	5948	6018	6088	6159	6229	6299		
75	6370	6440	6510	6581	6651	6721	6792	6862	6932	7003		
76	7073	7143	7214	7284	7354	7424	7495	7565	7635	7706		
77	7776	7846	7917	7987	8057	8128	8198	8268	8338	8409		
78	8479	8549	8620	8690	8760	8831	8901	8971	9041	9112		
79	9182	9252	9323	9393	9463	9533	9604	9674	9744	9814		
6180	9885	9955	0025	0096	0166	0236	0306	0377	0447	0517		
81	7910	787	0658	0728	0798	0868	0939	1009	1079	1150	1220	
82	1290	1360	1431	1501	1571	1641	1711	1782	1852	1922		
83	1992	2063	2133	2203	2273	2344	2414	2484	2554	2625		
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86	4099	4169	4240	4310	4380	4450	4520	4591	4661	4731	
87	4801	4871	4942	5012	5082	5152	5222	5292	5363	5433	
88	5503	5573	5643	5714	5784	5854	5924	5994	6064	6135	
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94	9712	9782	9852	9922	9992	0063	0133	0203	0273	0343	
95	7920413	0483	0553	0623	0694	0764	0834	0904	0974	1044	
96	1114	1184	1254	1324	1394	1465	1535	1605	1675	1745	
97	1815	1885	1955	2025	2095	2165	2235	2306	2376	2446	
98	2516	2586	2656	2726	2796	2866	2936	3006	3076	3146	
99	3216	3286	3356	3427	3497	3567	3637	3707	3777	3847	
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02	5318	5388	5458	5528	5598	5668	5738	5808	5878	5948	
03	6018	6088	6158	6228	6298	6368	6438	6508	6578	6648	
04	6718	6788	6858	6928	6998	7068	7138	7208	7278	7348	
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07	8817	8887	8957	9027	9097	9167	9237	9307	9377	9447	
08	9517	9587	9657	9727	9797	9867	9937	0007	0077	0147	
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12	2314	2384	2454	2524	2594	2664	2734	2804	2874	2944	
13	3014	3083	3153	3223	3293	3363	3433	3503	3573	3643	
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15	4411	4481	4551	4621	4691	4761	4831	4900	4970	5040	
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19	7206	7275	7345	7415	7485	7555	7625	7694	7764	7834	
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83	1671	1740	1809	1878	1947	2016	2085	2154	2224	2293	
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86	3744	3813	3882	3951	4020	4089	4158	4227	4296	4366	
87	4435	4504	4573	4642	4711	4780	4849	4918	4987	5056	
88	5125	5194	5263	5333	5402	5471	5540	5609	5678	5747	
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25	8010605	0674	0743	0811	0880	0949	1017	1086	1155	1223	
26	1292	1361	1429	1498	1566	1635	1704	1772	1841	1910	
27	1978	2047	2116	2184	2253	2322	2390	2459	2527	2596	
28	2665	2733	2802	2871	2939	3008	3076	3145	3214	3282	
29	3351	3420	3488	3557	3625	3694	3763	3831	3900	3968	
6330	4037	4106	4174	4243	4312	4380	4449	4517	4586	4655	
31	4723	4792	4860	4929	4998	5066	5135	5203	5272	5340	
32	5409	5478	5546	5615	5683	5752	5821	5889	5958	6026	
33	6095	6163	6232	6301	6369	6438	6506	6575	6643	6712	
34	6781	6849	6918	6986	7055	7123	7192	7261	7329	7398	
35	7466	7535	7603	7672	7740	7809	7878	7946	8015	8083	
36	8152	8220	8289	8357	8426	8494	8563	8631	8700	8769	
37	8837	8906	8974	9043	9111	9180	9248	9317	9385	9454	
38	9522	9591	9659	9728	9796	9865	9933	0002	0070	0139	
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43	2947	3016	3084	3153	3221	3289	3358	3426	3495	3563	
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46	5001	5069	5138	5206	5274	5343	5411	5480	5548	5617	
47	5685	5753	5822	5890	5959	6027	6096	6164	6232	6301	
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49	7053	7122	7190	7258	7327	7395	7464	7532	7600	7669	
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51	8421	8490	8558	8626	8695	8763	8831	8900	8968	9037	
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53	9789	9857	9925	9994	0062	0130	0199	0267	0335	0404	
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56	1839	1907	1976	2044	2112	2181	2249	2317	2385	2454	
57	2522	2590	2659	2727	2795	2864	2932	3000	3069	3137	
58	3205	3274	3342	3410	3478	3547	3615	3683	3752	3820	
59	3888	3957	4025	4093	4161	4230	4298	4366	4435	4503	
6360	4571	4639	4708	4776	4844	4913	4981	5049	5117	5186	
61	5254	5322	5391	5459	5527	5595	5664	5732	5800	5868	
62	5937	6005	6073	6141	6210	6278	6346	6414	6483	6551	
63	6619	6687	6756	6824	6892	6960	7029	7097	7166	7233	
64	7302	7370	7438	7506	7575	7643	7711	7779	7848	7916	
65	7984	8052	8121	8189	8257	8325	8393	8462	8530	8598	
66	8666	8735	8803	8871	8939	9007	9076	9144	9212	9280	
67	9348	9417	9485	9553	9621	9690	9758	9826	9894	9962	

No.	0	1	2	3	4	5	6	7	8	9	D.
6368	8040031	0099	0167	0235	0303	0372	0440	0508	0576	0644	
69	0712	0781	0849	0917	0985	1053	1122	1190	1258	1326	
6370	1394	1463	1531	1599	1667	1735	1803	1872	1940	2008	
71	2076	2144	2212	2281	2349	2417	2485	2553	2621	2690	
72	2758	2826	2894	2962	3030	3098	3167	3235	3303	3371	
73	3439	3507	3575	3644	3712	3780	3848	3916	3984	4052	
74	4121	4189	4257	4325	4393	4461	4529	4597	4666	4734	
75	4802	4870	4938	5006	5074	5143	5211	5279	5347	5415	
76	5183	5251	5319	5387	5456	5524	5592	5660	5728	5796	
77	6164	6232	6300	6368	6437	6505	6573	6641	6709	6777	
78	6845	6913	6981	7049	7118	7186	7254	7322	7390	7458	
79	7526	7594	7662	7730	7798	7866	7934	8003	8071	8139	
6380	8207	8275	8343	8411	8479	8547	8615	8683	8751	8819	
81	8887	8956	9024	9092	9160	9228	9296	9364	9432	9500	
82	9568	9636	9704	9772	9840	9908	9976	0044	0112	0180	
83	8050248	0316	0385	0453	0521	0589	0657	0725	0793	0861	
84	0929	0997	1065	1133	1201	1269	1337	1405	1473	1541	
85	1609	1677	1745	1813	1881	1949	2017	2085	2153	2221	
86	2289	2357	2425	2493	2561	2629	2697	2765	2833	2901	
87	2969	3037	3105	3173	3241	3309	3377	3445	3513	3581	
88	3649	3717	3785	3853	3921	3989	4057	4125	4193	4261	
89	4329	4397	4465	4533	4601	4669	4737	4805	4873	4941	
6390	5009	5077	5145	5212	5280	5348	5416	5484	5552	5620	
91	5688	5756	5824	5892	5960	6028	6096	6164	6232	6300	
92	6368	6436	6504	6571	6639	6707	6775	6843	6911	6979	
93	7047	7115	7183	7251	7319	7387	7455	7523	7590	7658	
94	7726	7794	7862	7930	7998	8066	8134	8202	8270	8338	
95	8405	8473	8541	8609	8677	8745	8813	8881	8949	9017	
96	9085	9153	9220	9288	9356	9424	9492	9560	9628	9696	
97	9764	9831	9899	9967	0035	0103	0171	0239	0307	0374	
98	8060442	0510	0578	0646	0714	0782	0850	0917	0985	1053	
99	1121	1189	1257	1325	1393	1460	1528	1596	1664	1732	
6400	1800	1868	1935	2003	2071	2139	2207	2275	2343	2410	
01	2478	2546	2614	2682	2750	2817	2885	2953	3021	3089	
02	3157	3225	3292	3360	3428	3496	3564	3632	3699	3767	
03	3835	3903	3971	4038	4106	4174	4242	4310	4378	4445	
04	4513	4581	4649	4717	4784	4852	4920	4988	5056	5124	
05	5191	5259	5327	5395	5463	5530	5598	5666	5734	5802	
06	5869	5937	6005	6073	6141	6208	6276	6344	6412	6479	
07	6547	6615	6683	6751	6818	6886	6954	7022	7089	7157	
08	7225	7293	7361	7428	7496	7564	7632	7699	7767	7835	
09	7903	7970	8038	8106	8174	8242	8309	8377	8445	8513	
6410	8580	8648	8716	8784	8851	8919	8987	9055	9122	9190	
11	9258	9326	9393	9461	9529	9596	9664	9732	9800	9867	
12	9935	0003	0071	0138	0206	0274	0342	0409	0477	0545	
13	8070612	0680	0748	0816	0883	0951	1019	1086	1154	1222	
68	7	14	20	27	34	41	48	54	61		

No.	0	1	2	3	4	5	6	7	8	9	D.
6414	8071290	1357	1425	1493	1560	1628	1696	1764	1831	1899	
15	1967	2034	2102	2170	2237	2305	2373	2440	2508	2576	
16	2644	2711	2779	2847	2914	2982	3050	3117	3185	3253	
17	3320	3388	3456	3523	3591	3659	3726	3794	3862	3929	
18	3997	4065	4132	4200	4268	4335	4403	4471	4538	4606	
19	4674	4741	4809	4877	4944	5012	5080	5147	5215	5283	
6420	5350	5418	5486	5553	5621	5689	5756	5824	5891	5959	
21	6027	6094	6162	6230	6297	6365	6432	6500	6568	6635	
22	6703	6771	6838	6906	6974	7041	7109	7176	7244	7312	
23	7379	7447	7514	7582	7650	7717	7785	7853	7920	7988	
24	8055	8123	8191	8258	8326	8393	8461	8529	8596	8664	
25	8731	8799	8867	8934	9002	9069	9137	9204	9272	9340	
26	9407	9475	9542	9610	9678	9745	9813	9880	9948	0015	
27	8080083	0151	0218	0286	0353	0421	0488	0556	0624	0691	
28	0759	0826	0894	0961	1029	1096	1164	1232	1299	1367	
29	1434	1502	1569	1637	1704	1772	1840	1907	1975	2042	
6430	2110	2177	2245	2312	2380	2447	2515	2582	2650	2718	
31	2785	2853	2920	2988	3055	3123	3190	3258	3325	3393	
32	3460	3528	3595	3663	3730	3798	3865	3933	4000	4068	
33	4136	4203	4271	4338	4406	4473	4541	4608	4676	4743	
34	4811	4878	4946	5013	5081	5148	5216	5283	5351	5418	
35	5486	5553	5620	5688	5755	5823	5890	5958	6025	6093	
36	6160	6228	6295	6363	6430	6498	6565	6633	6700	6768	
37	6835	6903	6970	7037	7105	7172	7240	7307	7375	7442	
38	7510	7577	7645	7712	7780	7847	7914	7982	8049	8117	
39	8184	8252	8319	8387	8454	8521	8589	8656	8724	8791	
6440	8859	8926	8994	9061	9128	9196	9263	9331	9398	9466	
41	9533	9600	9668	9735	9803	9870	9938	0005	0072	0140	
42	8090207	0275	0342	0409	0477	0544	0612	0679	0747	0814	
43	0881	0949	1016	1084	1151	1218	1286	1353	1421	1488	
44	1565	1633	1690	1757	1825	1892	1960	2027	2094	2162	
45	2229	2297	2364	2431	2499	2566	2634	2701	2768	2836	
46	2903	2970	3038	3105	3173	3240	3307	3375	3442	3509	
47	3577	3644	3711	3779	3846	3914	3981	4048	4116	4183	
48	4250	4318	4385	4452	4520	4587	4654	4722	4789	4856	
49	4924	4991	5058	5126	5193	5260	5328	5395	5462	5530	
6450	5597	5664	5732	5799	5866	5934	6001	6068	6136	6203	
51	6270	6338	6405	6472	6540	6607	6674	6742	6809	6876	
52	6944	7011	7078	7146	7213	7280	7347	7415	7482	7549	
53	7617	7684	7751	7819	7886	7953	8020	8088	8155	8222	
54	8290	8357	8424	8491	8559	8626	8693	8761	8828	8895	
55	8962	9030	9097	9164	9232	9299	9366	9433	9501	9568	
56	9635	9702	9770	9837	9904	9972	0039	0106	0173	0241	
57	8100308	0375	0442	0510	0577	0644	0711	0779	0846	0913	
58	0980	1048	1116	1182	1249	1317	1384	1451	1518	1586	
59	1653	1720	1787	1855	1922	1989	2056	2123	2191	2258	
<div> <div>68</div> <div>7</div> <div>14</div> <div>20</div> <div>27</div> <div>34</div> <div>41</div> <div>48</div> <div>54</div> <div>61</div> </div>											

No.	0	1	2	3	4	5	6	7	8	9	D.
6460	8102325	2392	2460	2527	2594	2661	2729	2796	2868	2930	
61	2997	3065	3132	3199	3266	3333	3401	3468	3535	3602	
62	3670	3737	3804	3871	3938	4006	4073	4140	4207	4274	
63	4342	4409	4476	4543	4610	4678	4745	4812	4879	4946	
64	5013	5081	5148	5215	5282	5349	5417	5484	5551	5618	
65	5685	5752	5820	5887	5954	6021	6088	6156	6223	6290	
66	6357	6424	6491	6558	6626	6693	6760	6827	6894	6961	
67	7029	7096	7163	7230	7297	7364	7432	7499	7566	7633	
68	7700	7767	7834	7902	7969	8036	8103	8170	8237	8304	
69	8372	8439	8506	8573	8640	8707	8774	8841	8909	8976	
6470	9043	9110	9177	9244	931	9378	9446	9513	9580	9647	
71	9714	9781	9848	9915	9982	0050	0117	0184	0251	0318	
72	8110385	0452	0519	0586	0653	0721	0788	0855	0922	0989	
73	1066	1123	1190	1257	1324	1392	1459	1526	1593	1660	
74	1727	1794	1861	1928	1995	2062	2129	2197	2264	2331	
75	2398	2465	2532	2599	2666	2733	2800	2867	2934	3001	
76	3068	3135	3203	3270	3337	3404	3471	3538	3605	3672	
77	3739	3806	3873	3940	4007	4074	4141	4208	4275	4342	
78	4409	4476	4544	4611	4678	4745	4812	4879	4946	5013	
79	5080	5147	5214	5281	5348	5415	5482	5549	5616	5683	
6480	5750	5817	5884	5951	6018	6085	6152	6219	6286	6353	
81	6420	6487	6554	6621	6688	6755	6822	6889	6956	7023	
82	7090	7157	7224	7291	7358	7425	7492	7559	7626	7693	
83	7760	7827	7894	7961	8028	8095	8162	8229	8296	8363	
84	8430	8497	8564	8631	8698	8765	8832	8899	8966	9033	
85	9100	9167	9234	9301	9368	9435	9502	9569	9636	9702	
86	9769	9836	9903	9970	0037	0104	0171	0238	0305	0372	
87	8120439	0506	0573	0640	0707	0774	0841	0908	0975	1041	
88	1108	1175	1242	1309	1376	1443	1510	1577	1644	1711	
89	1778	1846	1912	1979	2045	2112	2179	2246	2313	2380	
6490	2447	2514	2581	2648	2715	2782	2848	2915	2982	3049	
91	3116	3183	3250	3317	3384	3451	3518	3584	3651	3718	
92	3785	3852	3919	3986	4053	4120	4186	4253	4320	4387	
93	4454	4521	4588	4655	4722	4788	4855	4922	4989	5056	
94	5123	5190	5257	5323	5390	5457	5524	5591	5658	5725	
95	5792	5858	5925	5992	6059	6126	6193	6260	6326	6393	
96	6460	6527	6594	6661	6728	6794	6861	6928	6995	7062	
97	7129	7196	7263	7329	7396	7463	7530	7597	7663	7730	
98	7797	7864	7931	7998	8064	8131	8198	8265	8332	8399	
99	8465	8532	8599	8666	8733	8799	8866	8933	9000	9067	
6500	9134	9200	9267	9334	9401	9468	9534	9601	9668	9735	
01	9809	9868	9935	0002	0069	0136	0202	0269	0336	0403	
02	8130470	0536	0603	0670	0737	0804	0870	0937	1004	1071	
03	1138	1204	1271	1338	1405	1471	1538	1605	1672	1739	
04	1805	1872	1939	2006	2072	2139	2206	2273	2339	2406	
05	2475	2540	2607	2673	2740	2807	2874	2940	3007	3074	
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No.	0	1	2	3	4	5	6	7	8	9	D.
6506	8133141	3207	3274	3341	3408	3474	3541	3608	3675	3741	
07	3808	3875	3942	4008	4075	4142	4209	4275	4342	4409	
08	4475	4542	4609	4676	4742	4809	4876	4943	5009	5076	
09	5143	5209	5276	5343	5410	5476	5543	5610	5676	5743	
6510	5810	5877	5943	6010	6077	6143	6210	6277	6344	6410	
11	6477	6544	6610	6677	6744	6810	6877	6944	7011	7077	
12	7144	7211	7277	7344	7411	7477	7544	7611	7677	7744	
13	7811	7877	7944	8011	8077	8144	8211	8278	8344	8411	
14	8478	8544	8611	8678	8744	8811	8878	8944	9011	9078	
15	9144	9211	9278	9344	9411	9477	9544	9611	9677	9744	
16	9811	9877	9944	0011	0077	0144	0211	0277	0344	0411	
17	8140477	0544	0610	0677	0744	0810	0877	0944	1010	1077	
18	1144	1210	1277	1343	1410	1477	1543	1610	1677	1743	
19	1810	1876	1943	2010	2076	2143	2210	2276	2343	2409	
6520	2476	2543	2609	2676	2742	2809	2876	2942	3009	3075	
21	3142	3209	3275	3342	3408	3475	3542	3608	3675	3741	
22	3808	3875	3941	4008	4074	4141	4207	4274	4341	4407	
23	4474	4540	4607	4674	4740	4807	4873	4940	5006	5073	
24	5140	5206	5273	5339	5406	5472	5539	5605	5672	5739	
25	5805	5872	5938	6005	6071	6138	6204	6271	6338	6404	
26	6471	6537	6604	6670	6737	6803	6870	6937	7003	7070	
27	7136	7203	7269	7336	7402	7469	7535	7602	7668	7735	
28	7801	7868	7935	8001	8068	8134	8201	8267	8334	8400	
29	8467	8533	8600	8666	8733	8799	8866	8932	8999	9065	
6530	9132	9198	9265	9331	9398	9464	9531	9597	9664	9730	
31	9797	9863	9930	9996	0063	0129	0196	0262	0329	0395	
32	8150462	0528	0595	0661	0728	0794	0861	0927	0994	1060	
33	1127	1193	1260	1326	1392	1459	1525	1592	1658	1725	
34	1791	1858	1924	1991	2057	2124	2190	2257	2323	2389	
35	2456	2522	2589	2655	2722	2788	2855	2921	2988	3054	
36	3120	3187	3253	3320	3386	3453	3519	3586	3652	3718	
37	3785	3851	3918	3984	4051	4117	4183	4250	4316	4383	
38	4449	4516	4582	4648	4715	4781	4848	4914	4981	5047	
39	5113	5180	5246	5313	5379	5445	5512	5578	5645	5711	
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41	6441	6508	6574	6641	6707	6773	6840	6906	6973	7039	
42	7105	7172	7238	7305	7371	7437	7504	7570	7636	7703	
43	7769	7836	7902	7968	8035	8101	8167	8234	8300	8367	
44	8433	8499	8566	8632	8698	8765	8831	8897	8964	9030	
45	9097	9163	9229	9296	9362	9428	9495	9561	9627	9694	
46	9780	9826	9893	9959	0025	0092	0158	0224	0291	0357	
47	8160423	0490	0556	0622	0689	0755	0821	0888	0954	1020	
48	1087	1153	1219	1286	1352	1418	1485	1551	1617	1684	
49	1750	1816	1883	1949	2015	2081	2148	2214	2280	2347	
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No.	0	1	2	3	4	5	6	7	8	9	D.
6552	8163739	3805	3871	3938	4004	4070	4187	4203	4269	4335	
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54	5064	5131	5197	5263	5329	5396	5462	5528	5594	5661	
55	5727	5793	5859	5926	5992	6058	6124	6191	6257	6323	
56	6389	6456	6522	6588	6654	6721	6787	6853	6919	6986	
57	7052	7118	7184	7251	7317	7383	7449	7515	7582	7648	
58	7714	7780	7847	7913	7979	8045	8111	8178	8244	8310	
59	8376	8443	8509	8575	8641	8707	8774	8840	8906	8972	
6560	9038	9105	9171	9237	9303	9369	9436	9502	9568	9634	
61	9700	9767	9833	9899	9965	0031	0098	0164	0230	0296	
62	8170362	0428	0495	0561	0627	0693	0759	0826	0892	0958	
63	1024	1090	1156	1223	1288	1355	1421	1487	1553	1620	
64	1686	1752	1818	1884	1950	2017	2083	2149	2215	2281	
65	2347	2413	2480	2546	2612	2678	2744	2810	2876	2943	
66	3009	3075	3141	3207	3273	3339	3406	3472	3538	3604	
67	3670	3736	3802	3869	3935	4001	4067	4133	4199	4265	
68	4331	4398	4464	4530	4596	4662	4728	4794	4860	4927	
69	4993	5059	5125	5191	5257	5323	5389	5455	5521	5588	
6570	5654	5720	5786	5852	5918	5984	6050	6116	6182	6249	
71	6315	6381	6447	6513	6579	6645	6711	6777	6843	6909	
72	6976	7042	7108	7174	7240	7306	7372	7438	7504	7570	
73	7636	7702	7768	7835	7901	7967	8033	8099	8165	8231	
74	8297	8363	8429	8495	8561	8627	8693	8759	8825	8892	
75	8968	9024	9090	9156	9222	9288	9354	9420	9486	9552	
76	9618	9684	9750	9816	9882	9948	0014	0080	0146	0212	
77	8180278	0344	0410	0477	0543	0609	0675	0741	0807	0873	
78	0939	1005	1071	1137	1203	1269	1335	1401	1467	1533	
79	1599	1665	1731	1797	1863	1929	1995	2061	2127	2193	
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81	2919	2985	3051	3117	3183	3249	3315	3381	3447	3513	
82	3579	3645	3711	3777	3843	3909	3975	4041	4107	4173	
83	4239	4305	4370	4436	4502	4568	4634	4700	4766	4832	
84	4898	4964	5030	5096	5162	5228	5294	5360	5426	5492	
85	5558	5624	5690	5756	5822	5888	5953	6019	6085	6151	
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87	6877	6943	7008	7074	7140	7206	7272	7338	7404	7470	
88	7536	7602	7668	7734	7800	7866	7931	7997	8063	8129	
89	8195	8261	8327	8393	8459	8525	8591	8656	8722	8788	
6590	8854	8920	8986	9052	9118	9184	9250	9315	9381	9447	
91	9513	9579	9645	9711	9777	9843	9908	9974	0040	0106	
92	8190172	0233	0304	0370	0436	0501	0567	0633	0699	0765	
93	0831	0897	0962	1028	1094	1160	1226	1292	1358	1424	
94	1489	1555	1621	1687	1753	1819	1885	1950	2016	2082	
95	2148	2214	2280	2346	2411	2477	2543	2609	2675	2741	
96	2806	2872	2938	3004	3070	3136	3202	3267	3333	3399	
97	3465	3531	3597	3662	3728	3794	3860	3926	3991	4057	
66											
65 { 66 7 13 20 26 33 40 46 53 59											

No.	0	1	2	3	4	5	6	7	8	9	D.
6598	8194123	4189	4255	4321	4386	4452	4518	4584	4650	4715	
99	4781	4847	4913	4979	5045	5110	5176	5242	5308	5374	
6600	5439	5505	5571	5637	5703	5768	5834	5900	5966	6032	
01	6097	6163	6229	6295	6360	6426	6492	6558	6624	6689	
02	6755	6821	6887	6953	7018	7084	7150	7216	7281	7347	
03	7413	7479	7545	7610	7676	7742	7808	7873	7939	8005	
04	8071	8136	8202	8268	8334	8399	8465	8531	8597	8662	
05	8728	8794	8860	8925	8991	9057	9123	9188	9254	9320	
06	9386	9451	9517	9583	9649	9714	9780	9846	9912	9977	
07	8200043	0109	0175	0240	0306	0372	0437	0503	0569	0635	
08	0700	0766	0832	0898	0963	1029	1095	1160	1226	1292	
09	1358	1423	1489	1555	1620	1686	1752	1817	1883	1949	
6610	2015	2080	2146	2212	2277	2343	2409	2474	2540	2606	
11	2672	2737	2803	2869	2934	3000	3066	3131	3197	3263	
12	3328	3394	3460	3525	3591	3657	3723	3788	3854	3920	
13	3985	4051	4117	4182	4248	4314	4379	4445	4511	4576	
14	4642	4708	4773	4839	4905	4970	5036	5102	5167	5233	
15	5298	5364	5430	5495	5561	5627	5692	5758	5824	5889	
16	5955	6021	6086	6152	6218	6283	6349	6414	6480	6546	
17	6611	6677	6743	6808	6874	6939	7005	7071	7136	7202	
18	7268	7333	7399	7464	7530	7596	7661	7727	7793	7858	
19	7924	7989	8055	8121	8186	8252	8317	8383	8449	8514	
6620	8580	8645	8711	8777	8842	8908	8973	9039	9105	9170	
21	9236	9301	9367	9433	9498	9564	9629	9695	9761	9826	
22	9892	9957	0023	0089	0154	0220	0285	0351	0416	0482	
23	8210548	0613	0679	0744	0810	0875	0941	1007	1072	1138	
24	1203	1269	1334	1400	1465	1531	1597	1662	1728	1793	
25	1859	1924	1990	2055	2121	2187	2252	2318	2383	2449	
26	2514	2580	2645	2711	2776	2842	2908	2973	3039	3104	
27	3170	3235	3301	3366	3432	3497	3563	3628	3694	3759	
28	3825	3891	3956	4022	4087	4153	4218	4284	4349	4415	
29	4480	4546	4611	4677	4742	4808	4873	4939	5004	5070	
6630	5135	5201	5266	5332	5397	5463	5528	5594	5659	5725	
31	5790	5856	5921	5987	6052	6118	6183	6249	6314	6380	
32	6445	6511	6576	6642	6707	6773	6838	6904	6969	7034	
33	7100	7165	7231	7296	7362	7427	7493	7558	7624	7689	
34	7755	7820	7886	7951	8017	8082	8147	8213	8278	8344	
35	8409	8475	8540	8606	8671	8737	8802	8867	8933	8998	
36	9064	9129	9195	9260	9326	9391	9456	9522	9587	9653	
37	9718	9784	9849	9914	9980	0045	0111	0176	0242	0307	
38	8220372	0438	0503	0569	0634	0700	0765	0830	0896	0961	
39	1027	1092	1158	1223	1288	1354	1419	1485	1550	1615	
6640	1681	1746	1812	1877	1942	2008	2073	2139	2204	2269	
41	2335	2400	2466	2531	2596	2662	2727	2793	2858	2923	
42	2989	3054	3119	3185	3250	3316	3381	3446	3512	3577	
43	3645	3708	3773	3839	3904	3969	4035	4100	4166	4231	
66	7	13	20	26	33	40	46	53	59		

No.	0	1	2	3	4	5	6	7	8	9	D.
6644	8224296	4362	4427	4492	4558	4623	4688	4754	4819	4884	
45	4950	5015	5081	5146	5211	5277	5342	5407	5473	5538	
46	5603	5669	5734	5799	5865	5930	5995	6061	6126	6191	
47	6257	6322	6387	6453	6518	6583	6649	6714	6779	6845	
48	6910	6975	7041	7106	7171	7237	7302	7367	7433	7498	
49	7563	7629	7694	7759	7825	7890	7955	8021	8086	8151	
6650	8216	8282	8347	8412	8478	8543	8608	8674	8739	8804	
51	8869	8935	9000	9065	9131	9196	9261	9327	9392	9457	
52	9522	9588	9653	9718	9784	9849	9914	9979	0045	0110	
53	8230175	0241	0306	0371	0436	0502	0567	0632	0697	0763	
54	0828	0893	0958	1024	1089	1154	1220	1285	1350	1415	
55	1481	1546	1611	1676	1742	1807	1872	1937	2003	2068	
56	2183	2198	2264	2329	2394	2459	2525	2590	2655	2720	
57	2786	2851	2916	2981	3047	3112	3177	3242	3307	3373	
58	3438	3503	3568	3634	3699	3764	3829	3894	3960	4025	
59	4090	4155	4221	4286	4351	4416	4481	4547	4612	4677	
6660	4742	4808	4873	4938	5003	5068	5134	5199	5264	5329	
61	5394	5460	5525	5590	5655	5720	5786	5851	5916	5981	
62	6046	6111	6177	6242	6307	6372	6437	6503	6568	6633	
63	6698	6763	6828	6894	6959	7024	7089	7154	7220	7285	
64	7350	7415	7480	7545	7611	7676	7741	7806	7871	7936	
65	8002	8067	8132	8197	8262	8327	8392	8458	8523	8588	
66	8653	8718	8783	8849	8914	8979	9044	9109	9174	9239	
67	9305	9370	9435	9500	9565	9630	9695	9761	9826	9891	65
68	9956	0021	0086	0151	0216	0282	0347	0412	0477	0542	
69	8240607	0672	0737	0803	0868	0933	0998	1063	1128	1193	
6670	1258	1323	1389	1454	1519	1584	1649	1714	1779	1844	
71	1909	1975	2040	2105	2170	2235	2300	2365	2430	2495	
72	2560	2625	2691	2756	2821	2886	2951	3016	3081	3146	
73	3211	3276	3341	3406	3472	3537	3602	3667	3732	3797	
74	3862	3927	3992	4057	4122	4187	4252	4318	4383	4448	
75	4513	4578	4643	4708	4773	4838	4903	4968	5033	5098	
76	5163	5228	5293	5358	5423	5489	5554	5619	5684	5749	
77	5814	5879	5944	6009	6074	6139	6204	6269	6334	6399	
78	6464	6529	6594	6659	6724	6789	6854	6919	6984	7049	
79	7114	7179	7244	7310	7375	7440	7505	7570	7635	7700	
6680	7765	7830	7895	7960	8025	8090	8155	8220	8285	8350	
81	8415	8480	8545	8610	8675	8740	8805	8870	8935	9000	
82	9065	9130	9195	9260	9325	9390	9455	9520	9585	9650	
83	9715	9780	9845	9910	9975	0040	0105	0169	0234	0299	
84	8250364	0429	0494	0559	0624	0689	0754	0819	0884	0949	
85	1014	1079	1144	1209	1274	1339	1404	1469	1534	1599	
86	1664	1729	1794	1859	1924	1989	2053	2118	2183	2248	
87	2313	2378	2443	2508	2573	2638	2703	2768	2833	2898	
88	2963	3028	3093	3157	3223	3287	3352	3417	3482	3547	
89	3612	3677	3742	3807	3872	3937	4002	4066	4131	4196	
65	7	18	20	26	33	39	46	52	59		

No.	0	1	2	3	4	5	6	7	8	9	D.
6690	8254261	4326	4391	4456	4521	4586	4651	4716	4780	4845	
91	4910	4975	5040	5105	5170	5235	5300	5365	5430	5494	
92	5559	5624	5689	5754	5819	5884	5949	6014	6078	6143	
93	6208	6273	6338	6403	6468	6533	6598	6662	6727	6792	
94	6857	6922	6987	7052	7117	7181	7246	7311	7376	7441	
95	7506	7571	7636	7700	7765	7830	7895	7960	8025	8090	
96	8154	8219	8284	8349	8414	8479	8544	8608	8673	8738	
97	8803	8868	8933	8998	9062	9127	9192	9257	9322	9387	
98	9451	9516	9581	9646	9711	9776	9840	9905	9970	0035	
99	8260100	0165	0229	0294	0359	0424	0489	0554	0618	0683	
6700	0748	0813	0878	0942	1007	1072	1137	1202	1267	1331	
01	1396	1461	1526	1591	1655	1720	1785	1850	1915	1979	
02	2044	2109	2174	2239	2303	2368	2433	2498	2563	2627	
03	2692	2757	2822	2887	2951	3016	3081	3146	3210	3275	
04	3340	3405	3470	3534	3599	3664	3729	3794	3858	3923	
05	3988	4053	4117	4182	4247	4312	4376	4441	4506	4571	
06	4635	4700	4765	4830	4895	4959	5024	5089	5154	5218	
07	5283	5348	5413	5477	5542	5607	5672	5736	5801	5866	
08	5931	5995	6060	6125	6190	6254	6319	6384	6448	6513	
09	6578	6643	6707	6772	6837	6902	6966	7031	7096	7160	
6710	7225	7290	7355	7419	7484	7549	7614	7678	7743	7808	
11	7872	7937	8002	8067	8131	8196	8261	8325	8390	8455	
12	8519	8584	8649	8714	8778	8843	8908	8972	9037	9102	64
13	9166	9231	9296	9361	9425	9490	9555	9619	9684	9749	
14	9813	9878	9943	0007	0072	0137	0201	0266	0331	0395	
15	8270460	0525	0590	0654	0719	0784	0848	0913	0978	1042	
16	1107	1172	1236	1301	1366	1430	1495	1560	1624	1689	
17	1753	1818	1883	1947	2012	2077	2141	2206	2271	2336	
18	2400	2465	2529	2594	2659	2723	2788	2852	2917	2982	
19	3046	3111	3176	3240	3305	3370	3434	3499	3563	3628	
6720	3693	3757	3822	3887	3951	4016	4080	4145	4210	4274	
21	4339	4404	4468	4533	4597	4662	4727	4791	4856	4920	
22	4985	5050	5114	5179	5244	5308	5373	5437	5502	5567	
23	5631	5696	5760	5825	5889	5954	6019	6083	6148	6212	
24	6277	6342	6406	6471	6535	6600	6665	6729	6794	6858	
25	6923	6987	7052	7117	7181	7246	7310	7375	7439	7504	
26	7569	7633	7698	7762	7827	7891	7956	8021	8085	8150	
27	8214	8279	8343	8408	8473	8537	8602	8666	8731	8795	
28	8860	8924	8989	9053	9118	9183	9247	9312	9376	9441	
29	9505	9570	9634	9699	9763	9828	9893	9957	0022	0086	
6730	8280151	0215	0280	0344	0409	0473	0538	0602	0667	0731	
31	0796	0860	0925	0989	1054	1119	1183	1248	1312	1377	
32	1441	1506	1570	1635	1699	1764	1828	1893	1957	2022	
33	2086	2151	2215	2280	2344	2409	2473	2538	2602	2667	
34	2731	2796	2860	2925	2989	3054	3118	3183	3247	3312	
35	3376	3440	3505	3569	3634	3698	3763	3827	3892	3956	
64	6	13	19	26	32	38	45	51	58		

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6736	8284091	4085	4150	4214	4279	4343	4408	4472	4537	4601	
37	4665	4730	4794	4859	4923	4988	5052	5117	5181	5246	
38	5310	5375	5439	5503	5568	5632	5697	5761	5826	5890	
39	5955	6019	6083	6148	6212	6277	6341	6406	6470	6535	
6740	6599	6663	6728	6792	6857	6921	6986	7050	7114	7179	
41	7243	7308	7372	7437	7501	7565	7630	7694	7759	7823	
42	7887	7952	8016	8081	8145	8210	8274	8338	8403	8467	
43	8532	8596	8660	8725	8789	8854	8918	8982	9047	9111	
44	9176	9240	9304	9369	9433	9498	9562	9626	9691	9755	
45	9820	9884	9948	0013	0077	0141	0206	0270	0335	0399	
46	8290463	0528	0592	0656	0721	0785	0850	0914	0978	1043	
47	1107	1171	1236	1300	1365	1429	1493	1558	1622	1686	
48	1751	1815	1879	1944	2008	2073	2137	2201	2266	2330	
49	2394	2459	2523	2587	2652	2716	2780	2845	2909	2973	
6750	3038	3102	3166	3231	3295	3359	3424	3488	3552	3617	
51	3681	3745	3810	3874	3938	4003	4067	4131	4196	4260	
52	4324	4389	4453	4517	4582	4646	4710	4775	4839	4903	
53	4967	5032	5096	5160	5225	5289	5353	5418	5482	5546	
54	5611	5675	5739	5803	5868	5932	5996	6061	6125	6189	
55	6254	6318	6382	6446	6511	6575	6639	6704	6768	6832	
56	6896	6961	7025	7089	7154	7218	7282	7346	7411	7475	
57	7539	7603	7668	7732	7796	7861	7925	7989	8053	8118	64
58	8182	8246	8310	8375	8439	8503	8567	8632	8696	8760	
59	8824	8889	8953	9017	9081	9146	9210	9274	9338	9403	
6760	9467	9531	9595	9660	9724	9788	9852	9917	9981	0045	
61	8300109	0174	0238	0302	0366	0431	0495	0559	0623	0687	
62	0752	0816	0880	0944	1009	1073	1137	1201	1265	1330	
63	1394	1458	1522	1587	1651	1715	1779	1843	1908	1972	
64	2036	2100	2164	2229	2293	2357	2421	2485	2550	2614	
65	2678	2742	2806	2871	2935	2999	3063	3127	3191	3256	
66	3320	3384	3448	3512	3577	3641	3705	3769	3833	3898	
67	3962	4026	4090	4154	4218	4283	4347	4411	4475	4539	
68	4604	4668	4732	4796	4860	4924	4988	5053	5117	5181	
69	5245	5309	5373	5438	5502	5566	5630	5694	5758	5823	
6770	5887	5951	6015	6079	6143	6207	6272	6336	6400	6464	
71	6528	6592	6656	6721	6785	6849	6913	6977	7041	7105	
72	7169	7234	7298	7362	7426	7490	7554	7618	7683	7747	
73	7811	7875	7939	8003	8067	8131	8195	8260	8324	8388	
74	8452	8516	8580	8644	8708	8772	8837	8901	8965	9029	
75	9093	9157	9221	9285	9349	9413	9478	9542	9606	9670	
76	9734	9798	9862	9926	9990	0054	0119	0183	0247	0311	
77	8310375	0439	0503	0567	0631	0695	0759	0823	0887	0952	
78	1016	1080	1144	1208	1272	1336	1400	1464	1528	1592	
79	1656	1720	1784	1849	1913	1977	2041	2105	2169	2233	
6780	2297	2361	2425	2489	2553	2617	2681	2745	2809	2873	
81	2937	3001	3066	3130	3194	3258	3322	3386	3450	3514	
64 { 6 13 19 26 32 38 45 51 58											

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6782	8313578	3642	3706	3770	3834	3898	3962	4026	4090	4154	
83	4218	4282	4346	4410	4474	4538	4602	4666	4730	4794	
84	4858	4922	4986	5050	5114	5178	5242	5306	5371	5435	
85	5499	5563	5627	5691	5755	5819	5883	5947	6011	6075	
86	6139	6203	6267	6331	6395	6459	6523	6587	6651	6715	
87	6778	6842	6906	6970	7034	7098	7162	7226	7290	7354	
88	7418	7482	7546	7610	7674	7738	7802	7866	7930	7994	
89	8058	8122	8186	8250	8314	8378	8442	8506	8570	8634	
6790	8698	8762	8826	8890	8954	9018	9081	9145	9209	9273	
91	9337	9401	9465	9529	9593	9657	9721	9785	9849	9913	
92	9977	0041	0105	0169	0233	0296	0360	0424	0488	0552	
93	8320616	0680	0744	0808	0872	0936	1000	1064	1128	1192	
94	1255	1319	1383	1447	1511	1575	1639	1703	1767	1831	
95	1895	1959	2022	2086	2150	2214	2278	2342	2406	2470	
96	2534	2598	2662	2725	2789	2853	2917	2981	3045	3109	
97	3173	3237	3300	3364	3428	3492	3556	3620	3684	3748	
98	3812	3875	3939	4003	4067	4131	4195	4259	4323	4387	
99	4450	4514	4578	4642	4706	4770	4834	4898	4961	5025	
6800	5089	5153	5217	5281	5345	5408	5472	5536	5600	5664	
01	5728	5792	5855	5919	5983	6047	6111	6175	6239	6302	
02	6366	6430	6494	6558	6622	6686	6749	6813	6877	6941	
03	7005	7069	7132	7196	7260	7324	7388	7452	7515	7579	
04	7643	7707	7771	7835	7898	7962	8026	8090	8154	8217	
05	8281	8345	8409	8473	8537	8600	8664	8728	8792	8856	
06	8919	8983	9047	9111	9175	9238	9302	9366	9430	9494	
07	9558	9621	9685	9749	9813	9877	9940	0004	0068	0132	
08	8330195	0259	0323	0387	0451	0514	0578	0642	0706	0770	
09	0833	0897	0961	1025	1088	1152	1216	1280	1344	1407	
6810	1471	1535	1599	1662	1726	1790	1854	1918	1981	2045	
11	2109	2173	2236	2300	2364	2428	2491	2555	2619	2683	
12	2746	2810	2874	2938	3001	3065	3129	3193	3256	3320	
13	3384	3448	3511	3575	3639	3703	3766	3830	3894	3958	
14	4021	4085	4149	4212	4276	4340	4404	4467	4531	4595	
15	4659	4722	4786	4850	4913	4977	5041	5105	5168	5232	
16	5296	5360	5423	5487	5551	5614	5678	5742	5806	5869	
17	5933	5997	6060	6124	6188	6251	6315	6379	6443	6506	
18	6570	6634	6697	6761	6825	6888	6952	7016	7080	7143	
19	7207	7271	7334	7398	7462	7525	7589	7653	7716	7780	
6820	7844	7907	7971	8035	8098	8162	8226	8289	8353	8417	
21	8480	8544	8608	8672	8735	8799	8862	8926	8990	9053	
22	9117	9181	9244	9308	9372	9435	9499	9563	9626	9690	
23	9754	9817	9881	9945	0008	0072	0136	0199	0263	0327	
24	8340390	0454	0517	0581	0645	0708	0772	0836	0899	0963	
25	1027	1090	1154	1217	1281	1345	1408	1472	1536	1599	
26	1663	1726	1790	1854	1917	1981	2045	2108	2172	2235	
27	2299	2363	2426	2490	2553	2617	2681	2744	2808	2872	

64	6	13	19	26	32	38	45	51	58
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No.	0	1	2	3	4	5	6	7	8	9	D.
6828	8342935	2999	3062	3126	3190	3253	3317	3380	3444	3508	
29	3571	3635	3698	3762	3826	3889	3953	4016	4080	4143	
6830	4207	4271	4334	4398	4461	4525	4589	4652	4716	4779	
31	4843	4906	4970	5034	5097	5161	5224	5288	5351	5415	
32	5479	5542	5606	5669	5733	5796	5860	5924	5987	6051	
33	6114	6178	6241	6305	6368	6432	6496	6559	6623	6686	
34	6750	6813	6877	6940	7004	7067	7131	7195	7258	7322	
35	7385	7449	7512	7576	7639	7703	7766	7830	7893	7957	
36	8021	8084	8148	8211	8275	8338	8402	8465	8529	8592	
37	8656	8719	8783	8846	8910	8973	9037	9100	9164	9227	
38	9291	9354	9418	9481	9545	9608	9672	9736	9799	9863	
39	9926	9990	0053	0117	0180	0244	0307	0371	0434	0498	
6840	8350561	0625	0688	0751	0815	0878	0942	1005	1069	1132	
41	1196	1259	1323	1386	1450	1513	1577	1640	1704	1767	
42	1831	1894	1958	2021	2085	2148	2212	2275	2339	2402	
43	2465	2529	2592	2656	2719	2783	2846	2910	2973	3037	
44	3100	3163	3227	3290	3354	3417	3481	3544	3608	3671	
45	3735	3798	3861	3925	3988	4052	4115	4179	4242	4306	
46	4369	4432	4496	4559	4623	4686	4750	4813	4876	4940	
47	5003	5067	5130	5194	5257	5320	5384	5447	5511	5574	
48	5638	5701	5764	5828	5891	5955	6018	6081	6145	6208	
49	6272	6335	6398	6462	6525	6589	6652	6716	6779	6842	
6850	6906	6969	7033	7096	7159	7223	7286	7349	7413	7476	64
51	7540	7603	7666	7730	7793	7857	7920	7983	8047	8110	
52	8174	8237	8300	8364	8427	8490	8554	8617	8681	8744	
53	8807	8871	8934	8997	9061	9124	9188	9251	9314	9378	
54	9441	9504	9568	9631	9694	9758	9821	9885	9948	0011	
55	8360075	0138	0201	0265	0328	0391	0455	0518	0581	0645	
56	0708	0771	0835	0898	0961	1025	1088	1151	1215	1278	
57	1341	1405	1468	1531	1595	1658	1721	1785	1848	1911	
58	1975	2038	2101	2165	2228	2291	2355	2418	2481	2545	
59	2608	2671	2735	2798	2861	2925	2988	3051	3115	3178	
6860	3241	3304	3368	3431	3494	3558	3621	3684	3748	3811	
61	3874	3937	4001	4064	4127	4191	4254	4317	4381	4444	
62	4507	4570	4634	4697	4760	4824	4887	4950	5013	5077	
63	5140	5203	5267	5330	5393	5456	5520	5583	5646	5709	
64	5773	5836	5899	5963	6026	6089	6152	6216	6279	6342	
65	6405	6469	6532	6595	6658	6722	6785	6848	6911	6975	
66	7038	7101	7164	7228	7291	7354	7417	7481	7544	7607	
67	7670	7734	7797	7860	7923	7987	8050	8113	8176	8240	
68	8303	8366	8429	8493	8556	8619	8682	8745	8809	8872	
69	8935	8998	9062	9125	9188	9251	9314	9378	9441	9504	
5870	9567	9631	9694	9757	9820	9883	9947	0010	0073	0136	
71	8370199	0263	0326	0389	0452	0516	0579	0642	0705	0768	
72	0832	0895	0958	1021	1084	1147	1211	1274	1337	1400	
73	1463	1527	1590	1653	1716	1779	1843	1906	1969	2032	
64 { 64 { 6 { 13 { 19 { 26 { 32 { 38 { 45 { 51 { 58 {											

No.	0	1	2	3	4	5	6	7	8	9	D.
6874	8372095	2158	2222	2285	2348	2411	2474	2538	2601	2664	
75	2727	2790	2853	2917	2980	3043	3106	3169	3232	3296	
76	3359	3422	3485	3548	3611	3674	3738	3801	3864	3927	
77	3990	4053	4117	4180	4243	4306	4369	4432	4495	4559	
78	4622	4685	4748	4811	4874	4937	5001	5064	5127	5190	
79	5253	5316	5379	5442	5506	5569	5632	5695	5758	5821	
6880	5884	5948	6011	6074	6137	6200	6263	6326	6389	6452	
81	6516	6579	6642	6705	6768	6831	6894	6957	7020	7084	
82	7147	7210	7273	7336	7399	7462	7525	7588	7652	7715	
83	7778	7841	7904	7967	8030	8093	8156	8219	8282	8346	
84	8409	8472	8535	8598	8661	8724	8787	8850	8913	8976	
85	9039	9103	9166	9229	9292	9355	9418	9481	9544	9607	
86	9670	9733	9796	9859	9922	9986	0049	0112	0175	0238	
87	8380301	0364	0427	0490	0553	0616	0679	0742	0805	0868	
88	0931	0994	1057	1121	1184	1247	1310	1373	1436	1499	
89	1562	1625	1688	1751	1814	1877	1940	2003	2066	2129	
6890	2192	2255	2318	2381	2444	2507	2570	2633	2696	2759	
91	2822	2886	2949	3012	3075	3138	3201	3264	3327	3390	
92	3453	3516	3579	3642	3705	3768	3831	3894	3957	4020	
93	4083	4146	4209	4272	4335	4398	4461	4524	4587	4650	
94	4713	4776	4839	4902	4965	5028	5091	5154	5217	5280	
95	5343	5406	5469	5532	5595	5658	5721	5784	5847	5910	
96	5973	6036	6098	6161	6224	6287	6350	6413	6476	6539	
97	6602	6665	6728	6791	6854	6917	6980	7043	7106	7169	
98	7232	7295	7358	7421	7484	7547	7610	7673	7736	7798	
99	7861	7924	7987	8050	8113	8176	8239	8302	8365	8428	
6900	8491	8554	8617	8680	8743	8806	8869	8931	8994	9057	
01	9120	9183	9246	9309	9372	9435	9498	9561	9624	9687	
02	9750	9812	9875	9938	0001	0064	0127	0190	0253	0316	
03	8390379	0442	0505	0567	0630	0693	0756	0819	0882	0945	
04	1008	1071	1134	1197	1259	1322	1385	1448	1511	1574	
05	1637	1700	1763	1826	1888	1951	2014	2077	2140	2203	
06	2266	2329	2392	2454	2517	2580	2643	2706	2769	2832	
07	2895	2957	3020	3083	3146	3209	3272	3335	3398	3460	
08	3523	3586	3649	3712	3775	3838	3900	3963	4026	4089	
09	4152	4215	4278	4341	4403	4466	4529	4592	4655	4718	
6910	4780	4843	4906	4969	5032	5095	5158	5220	5283	5346	
11	5409	5472	5535	5597	5660	5723	5786	5849	5912	5974	
12	6037	6100	6163	6226	6289	6351	6414	6477	6540	6603	
13	6666	6728	6791	6854	6917	6980	7042	7105	7168	7231	
14	7294	7357	7419	7482	7545	7608	7671	7733	7796	7859	
15	7922	7985	8047	8110	8173	8236	8299	8361	8424	8487	
16	8550	8613	8675	8738	8801	8864	8927	8989	9052	9115	
17	9178	9241	9303	9366	9429	9492	9554	9617	9680	9743	
18	9806	9868	9931	9994	0057	0119	0182	0245	0308	0371	
19	8400433	0496	0559	0622	0684	0747	0810	0873	0935	0998	

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No.	0	1	2	3	4	5	6	7	8	9	D.
6920	8401061	1124	1186	1249	1312	1375	1437	1500	1563	1626	
21	1688	1751	1814	1877	1939	2002	2065	2128	2190	2253	
22	2316	2379	2441	2504	2567	2630	2692	2755	2818	2881	
23	2943	3006	3069	3132	3194	3257	3320	3382	3445	3508	
24	3571	3633	3696	3759	3821	3884	3947	4010	4072	4135	
25	4198	4260	4323	4386	4449	4511	4574	4637	4699	4762	
26	4825	4888	4950	5013	5076	5138	5201	5264	5326	5389	
27	5452	5515	5577	5640	5703	5765	5828	5891	5953	6016	
28	6079	6141	6204	6267	6330	6392	6455	6518	6580	6643	
29	6706	6768	6831	6894	6956	19	7082	7144	7207	7270	
6930	7332	7395	7458	7520	7583	646	7708	7771	7834	7896	
31	7959	8022	8084	8147	8210	8272	8335	8398	8460	8523	
32	8586	8648	8711	8773	8836	8899	8961	9024	9087	9149	
33	9212	9275	9337	9400	9463	9525	9588	9650	9713	9776	
34	9838	9901	9964	0026	0089	0152	0214	0277	0339	0402	
35	8410465	0527	0590	0653	0715	0778	0840	0903	0966	1028	
36	1091	1153	1216	1279	1341	1404	1467	1529	1592	1654	
37	1717	1780	1842	1905	1967	2030	2093	2155	2218	2280	
38	2343	2406	2468	2531	2593	2656	2719	2781	2844	2906	
39	2969	3031	3094	3157	3219	3282	3344	3407	3470	3532	
6940	3595	3657	3720	3782	3845	3908	3970	4033	4095	4158	
41	4220	4283	4346	4408	4471	4533	4596	4658	4721	4784	
42	4846	4909	4971	5034	5096	5159	5221	5284	5347	5409	
43	5472	5534	5597	5659	5722	5784	5847	5909	5972	6035	
44	6097	6160	6222	6285	6347	6410	6472	6535	6597	6660	
45	6723	6785	6848	6910	6973	7035	7098	7160	7223	7285	
46	7348	7410	7473	7535	7598	7660	7723	7785	7848	7910	
47	7973	8036	8098	8161	8223	8286	8348	8411	8473	8536	
48	8598	8661	8723	8786	8848	8911	8973	9036	9098	9161	
49	9223	9286	9348	9411	9473	9536	9598	9661	9723	9786	
6950	9848	9911	9973	0036	0098	0160	0223	0285	0348	0410	
51	8420473	0535	0598	0660	0723	0785	0848	0910	0973	1035	
52	1098	1160	1223	1285	1348	1410	1472	1535	1597	1660	
53	1722	1785	1847	1910	1972	2035	2097	2160	2222	2284	
54	2347	2409	2472	2534	2597	2659	2722	2784	2846	2909	
55	2971	3034	3096	3159	3221	3284	3346	3408	3471	3533	
56	3596	3658	3721	3783	3845	3908	3970	4033	4095	4158	
57	4220	4282	4345	4407	4470	4532	4595	4657	4719	4782	
58	4844	4907	4969	5031	5094	5156	5219	5281	5344	5406	
59	5468	5531	5593	5656	5718	5780	5843	5905	5968	6030	
6960	6092	6155	6217	6280	6342	6404	6467	6529	6592	6654	
61	6716	6779	6841	6904	6966	7028	7091	7153	7215	7278	
62	7340	7403	7465	7527	7590	7652	7714	7777	7839	7902	
63	7964	8026	8089	8151	8213	8276	8338	8401	8463	8525	
64	8588	8650	8712	8775	8837	8899	8962	9024	9086	9149	
65	9211	9274	9336	9398	9461	9523	9585	9648	9710	9772	
63 6 13 19 25 32 38 44 50 57											

No.	0	1	2	3	4	5	6	7	8	9	D.
6966	8429835	9897	9959	0022	0084	0146	0209	0271	0338	0396	
67	8430458	0520	0583	0645	0707	0770	0832	0894	0957	1019	
68	1081	1144	1206	1268	1331	1393	1455	1518	1580	1642	
69	1705	1767	1829	1892	1954	2016	2079	2141	2203	2265	
6970	2328	2390	2452	2515	2577	2639	2702	2764	2826	2889	
71	2951	3013	3075	3138	3200	3262	3325	3387	3449	3511	
72	3574	3636	3698	3761	3823	3885	3948	4010	4072	4134	
73	4197	4259	4321	4383	4446	4508	4570	4633	4695	4757	
74	4819	4882	4944	5006	5069	5131	5193	5255	5318	5380	
75	5442	5504	5567	5629	5691	5753	5816	5879	5940	6002	
76	6065	6127	6189	6251	6314	6376	6438	6500	6563	6625	
77	6687	6749	6812	6874	6936	6998	7061	7123	7185	7247	
78	7310	7372	7434	7496	7559	7621	7683	7745	7808	7870	
79	7932	7994	8056	8119	8181	8243	8305	8368	8430	8492	
6980	8554	8616	8679	8741	8803	8865	8928	8990	9052	9114	
81	9176	9239	9301	9363	9425	9487	9550	9612	9674	9736	
82	9798	9861	9923	9985	0047	0109	0172	0234	0296	0358	
83	8440420	0483	0545	0607	0669	0731	0794	0856	0918	0980	
84	1042	1104	1167	1229	1291	1353	1415	1478	1540	1602	
85	1664	1726	1788	1851	1913	1975	2037	2099	2161	2224	
86	2286	2348	2410	2472	2534	2597	2659	2721	2783	2845	
87	2907	2970	3032	3094	3156	3218	3280	3343	3405	3467	
88	3529	3591	3653	3715	3778	3840	3902	3964	4026	4088	
89	4150	4213	4275	4337	4399	4461	4523	4585	4647	4710	62
6990	4772	4834	4896	4958	5020	5082	5145	5207	5269	5331	
91	5393	5455	5517	5579	5642	5704	5766	5828	5890	5952	
92	6014	6076	6138	6201	6263	6325	6387	6449	6511	6573	
93	6635	6697	6759	6822	6884	6946	7008	7070	7132	7194	
94	7256	7318	7380	7443	7505	7567	7629	7691	7753	7815	
95	7877	7939	8001	8063	8126	8188	8250	8312	8374	8436	
96	8498	8560	8622	8684	8746	8808	8870	8933	8995	9057	
97	9119	9181	9243	9305	9367	9429	9491	9553	9615	9677	
98	9739	9801	9863	9926	9988	0050	0112	0174	0236	0298	
99	8450360	0422	0484	0546	0608	0670	0732	0794	0856	0918	
7000	0980	1042	1104	1167	1229	1291	1353	1415	1477	1539	
01	1601	1663	1725	1787	1849	1911	1973	2035	2097	2159	
02	2221	2283	2345	2407	2469	2531	2593	2655	2717	2779	
03	2841	2903	2965	3027	3089	3151	3213	3275	3337	3399	
04	3461	3523	3585	3647	3709	3771	3833	3895	3957	4019	
05	4081	4143	4205	4267	4329	4391	4453	4515	4577	4639	
06	4701	4763	4825	4887	4949	5011	5073	5135	5197	5259	
07	5321	5383	5445	5507	5569	5631	5693	5755	5817	5879	
08	5941	6003	6065	6127	6189	6251	6313	6375	6437	6499	
09	6521	6583	6645	6707	6769	6831	6893	6955	7017	7079	
7010	7180	7242	7304	7366	7428	7490	7552	7614	7676	7738	
11	7800	7862	7924	7986	8047	8109	8171	8233	8295	8357	
62	6	12	19	25	31	37	43	50	56		

No.	0	1	2	3	4	5	6	7	8	9	D.
7012	8458419	8481	8543	8605	8667	8729	8791	8853	8915	8976	
13	9038	9100	9162	9224	9286	9348	9410	9472	9534	9596	
14	9658	9720	9781	9843	9905	9967	0029	0091	0153	0215	
15	8460277	0339	0401	0462	0524	0586	0648	0710	0772	0834	
16	0896	0958	1020	1082	1143	1205	1267	1329	1391	1453	
17	1515	1577	1639	1700	1762	1824	1886	1948	2010	2072	
18	2134	2196	2257	2319	2381	2443	2505	2567	2629	2691	
19	2752	2814	2876	2938	3000	3062	3124	3186	3247	3309	
7020	3371	3433	3495	3557	3619	3680	3742	3804	3866	3928	
21	3990	4052	4113	4175	4237	4299	4361	4423	4485	4546	
22	4608	4670	4732	4794	4856	4917	4979	5041	5103	5165	
23	5227	5289	5350	5412	5474	5536	5598	5660	5721	5783	
24	5845	5907	5969	6031	6092	6154	6216	6278	6340	6401	
25	6463	6525	6587	6649	6711	6772	6834	6896	6958	7020	
26	7081	7143	7205	7267	7329	7391	7452	7514	7576	7638	
27	7700	7761	7823	7885	7947	8009	8071	8132	8194	8256	
28	8318	8379	8441	8503	8565	8626	8688	8750	8812	8874	
29	8935	8997	9059	9121	9183	9244	9306	9368	9430	9491	
7030	9553	9615	9677	9739	9800	9862	9924	9986	0047	0109	
31	8470171	0233	0295	0356	0418	0480	0542	0603	0665	0727	
32	0789	0850	0912	0974	1036	1097	1159	1221	1283	1344	
33	1406	1468	1530	1591	1653	1715	1777	1838	1900	1962	
34	2024	2085	2147	2209	2271	2332	2394	2456	2518	2579	
35	2641	2703	2764	2826	2888	2950	3011	3073	3135	3197	
36	3258	3320	3382	3443	3505	3567	3629	3690	3752	3814	
37	3876	3937	3999	4061	4122	4184	4246	4307	4369	4431	
38	4493	4554	4616	4678	4739	4801	4863	4925	4986	5048	
39	5110	5171	5233	5295	5356	5418	5480	5542	5603	5665	
7040	5727	5788	5850	5912	5973	6035	6097	6158	6220	6282	
41	6343	6405	6467	6528	6590	6652	6714	6775	6837	6899	
42	6960	7022	7084	7145	7207	7269	7330	7392	7454	7515	
43	7577	7639	7700	7762	7824	7885	7947	8009	8070	8132	
44	8193	8255	8317	8378	8440	8502	8563	8625	8687	8748	
45	8810	8872	8933	8995	9057	9118	9180	9241	9303	9365	
46	9426	9488	9550	9611	9673	9735	9796	9858	9919	9981	
47	8480043	0104	0166	0228	0289	0351	0412	0474	0536	0597	
48	0659	0721	0782	0844	0905	0967	1029	1090	1152	1213	
49	1275	1337	1398	1460	1522	1583	1645	1706	1768	1830	
7050	1891	1953	2014	2076	2138	2199	2261	2322	2384	2446	
51	2507	2569	2630	2692	2754	2815	2877	2938	3000	3061	
52	3123	3185	3246	3308	3369	3431	3493	3554	3616	3677	
53	3739	3800	3862	3924	3985	4047	4108	4170	4231	4293	
54	4355	4416	4478	4539	4601	4662	4724	4786	4847	4909	
55	4970	5032	5093	5155	5216	5278	5340	5401	5463	5524	
56	5586	5647	5709	5770	5832	5893	5955	6017	6078	6140	
57	6201	6263	6324	6386	6447	6509	6570	6632	6693	6755	

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No.	0	1	2	3	4	5	6	7	8	9	D.
7058	8486817	6878	6940	7001	7063	7124	7186	7247	7309	7370	
59	7432	7493	7555	7616	7678	7739	7801	7862	7924	7985	
7060	8047	8109	8170	8232	8293	8355	8416	8478	8539	8601	
61	8662	8724	8785	8847	8908	8970	9031	9093	9154	9216	
62	9277	9339	9400	9462	9523	9585	9646	9708	9769	9831	
63	9892	9954	0015	0077	0138	0199	0261	0322	0384	0445	
64	8490507	0568	0630	0691	0753	0814	0876	0937	0999	1060	
65	1122	1183	1245	1306	1368	1429	1490	1552	1613	1675	
66	1736	1798	1859	1921	1982	2044	2105	2167	2228	2289	
67	2351	2412	2474	2535	2597	2658	2720	2781	2843	2904	
68	2965	3027	3088	3150	3211	3273	3334	3396	3457	3518	
69	3580	3641	3703	3764	3826	3887	3948	4010	4071	4133	
7070	4194	4256	4317	4378	4440	4501	4563	4624	4686	4747	
71	4808	4870	4931	4993	5054	5115	5177	5238	5300	5361	
72	5423	5484	5545	5607	5668	5730	5791	5852	5914	5975	
73	6037	6098	6159	6221	6282	6344	6405	6466	6528	6589	
74	6651	6712	6773	6835	6896	6958	7019	7080	7142	7203	
75	7264	7326	7387	7449	7510	7571	7633	7694	7755	7817	
76	7878	7940	8001	8062	8124	8185	8246	8308	8369	8431	
77	8492	8553	8615	8676	8737	8799	8860	8922	8983	9044	
78	9106	9167	9228	9290	9351	9412	9474	9535	9596	9658	
79	9719	9780	9842	9903	9965	0026	0087	0149	0210	0271	
7080	8500333	0394	0455	0517	0578	0639	0701	0762	0823	0885	
81	0946	1007	1069	1130	1191	1253	1314	1375	1437	1498	61
82	1559	1621	1682	1743	1805	1866	1927	1988	2050	2111	
83	2172	2234	2295	2356	2418	2479	2540	2602	2663	2724	
84	2786	2847	2908	2969	3031	3092	3153	3215	3276	3337	
85	3399	3460	3521	3582	3644	3705	3766	3828	3889	3950	
86	4011	4073	4134	4195	4257	4318	4379	4440	4502	4563	
87	4624	4686	4747	4808	4869	4931	4992	5053	5115	5176	
88	5237	5298	5360	5421	5482	5543	5605	5666	5727	5788	
89	5850	5911	5972	6034	6095	6156	6217	6279	6340	6401	
7090	6462	6524	6585	6646	6707	6769	6830	6891	6952	7014	
91	7075	7136	7197	7259	7320	7381	7442	7504	7565	7626	
92	7687	7749	7810	7871	7932	7993	8055	8116	8177	8238	
93	8300	8361	8422	8483	8545	8606	8667	8728	8789	8851	
94	8912	8973	9034	9095	9157	9218	9279	9340	9402	9463	
95	9524	9585	9646	9708	9769	9830	9891	9952	0014	0075	
96	8510136	0197	0258	0320	0381	0442	0503	0564	0626	0687	
97	0748	0809	0870	0932	0993	1054	1115	1176	1238	1299	
98	1360	1421	1482	1544	1605	1666	1727	1788	1849	1911	
99	1972	2033	2094	2155	2216	2278	2339	2400	2461	2522	
7100	2583	2645	2706	2767	2828	2889	2950	3012	3073	3134	
01	3195	3256	3317	3379	3440	3501	3562	3623	3684	3746	
02	3807	3868	3929	3990	4051	4112	4174	4235	4296	4357	
03	4418	4479	4540	4602	4663	4724	4785	4846	4907	4968	
A { 61 6 12 18 24 31 37 43 49 55 }											

No.	0	1	2	3	4	5	6	7	8	9	D.
7104	8515080	5091	5152	5215	5274	5335	5396	5457	5519	5580	
05	5641	5702	5763	5824	5885	5946	6008	6069	6130	6191	
06	6252	6313	6374	6435	6496	6558	6619	6680	6741	6802	
07	6863	6924	6985	7046	7108	7169	7230	7291	7352	7413	
08	7474	7535	7596	7657	7719	7780	7841	7902	7963	8024	
09	8085	8146	8207	8268	8329	8391	8452	8513	8574	8635	
7110	8696	8757	8818	8879	8940	9001	9062	9124	9185	9246	
11	9307	9368	9429	9490	9551	9612	9673	9734	9795	9856	
12	9917	9979	0040	0101	0162	0223	0284	0345	0406	0467	
13	8520528	0589	0650	0711	0772	0833	0894	0955	1017	1078	
14	1139	1200	1261	1322	1383	1444	1505	1566	1627	1688	
15	1749	1810	1871	1932	1993	2054	2115	2176	2237	2298	
16	2359	2420	2481	2542	2604	2665	2726	2787	2848	2909	
17	2970	3031	3092	3153	3214	3275	3336	3397	3458	3519	
18	3580	3641	3702	3763	3824	3885	3946	4007	4068	4129	
19	4190	4251	4312	4373	4434	4495	4556	4617	4678	4739	
7120	4800	4861	4922	4983	5044	5105	5166	5227	5288	5349	
21	5410	5471	5532	5593	5654	5715	5776	5837	5898	5959	
22	6020	6081	6142	6203	6264	6325	6386	6447	6508	6568	
23	6629	6690	6751	6812	6873	6934	6995	7056	7117	7178	
24	7239	7300	7361	7422	7483	7544	7605	7666	7727	7788	
25	7849	7910	7971	8032	8093	8154	8214	8275	8336	8397	
26	8458	8519	8580	8641	8702	8763	8824	8885	8946	9007	
27	9068	9129	9189	9250	9311	9372	9433	9494	9555	9616	61
28	9677	9738	9799	9860	9921	9982	0042	0103	0164	0225	
29	8530286	0347	0408	0469	0530	0591	0652	0713	0773	7834	
7130	0895	0956	1017	1078	1139	1200	1261	1322	1383	1443	
31	1504	1565	1626	1687	1748	1809	1870	1931	1992	2052	
32	2113	2174	2235	2296	2357	2418	2479	2540	2600	2661	
33	2722	2783	2844	2905	2966	3027	3088	3148	3209	3270	
34	3331	3392	3453	3514	3575	3635	3696	3757	3818	3879	
35	3940	4001	4062	4122	4183	4244	4305	4366	4427	4488	
36	4548	4609	4670	4731	4792	4853	4914	4974	5035	5096	
37	5157	5218	5279	5340	5400	5461	5522	5583	5644	5705	
38	5765	5826	5887	5948	6009	6070	6130	6191	6252	6313	
39	6374	6435	6495	6556	6617	6678	6739	6800	6860	6921	
7140	6982	7043	7104	7165	7225	7286	7347	7408	7469	7530	
41	7590	7651	7712	7773	7834	7894	7955	8016	8077	8138	
42	8198	8259	8320	8381	8442	8502	8563	8624	8685	8746	
43	8807	8867	8928	8989	9050	9110	9171	9232	9293	9354	
44	9414	9475	9536	9597	9658	9718	9779	9840	9901	9962	
45	8540022	0083	0144	0205	0265	0326	0387	0448	0509	0569	
46	0630	0691	0752	0812	0873	0934	0995	1056	1116	1177	
47	1238	1299	1359	1420	1481	1542	1602	1663	1724	1785	
48	1845	1906	1967	2028	2088	2149	2210	2271	2331	2392	
49	2453	2514	2574	2635	2696	2757	2817	2878	2939	3000	
61	6	12	18	24	31	37	43	49	55		

No.	0	1	2	3	4	5	6	7	8	9	D.
7150	8543060	3121	3182	3243	3303	3364	3425	3486	3546	3607	
51	3668	3729	3789	3850	3911	3971	4032	4093	4154	4214	
52	4275	4336	4397	4457	4518	4579	4639	4700	4761	4822	
53	4882	4943	5004	5064	5125	5186	5247	5307	5368	5429	
54	5489	5550	5611	5671	5732	5793	5854	5914	5975	6036	
55	6096	6157	6218	6278	6339	6400	6461	6521	6582	6643	
56	6703	6764	6825	6885	6946	7007	7067	7128	7189	7249	
57	7310	7371	7432	7492	7553	7614	7674	7735	7796	7856	
58	7917	7978	8038	8099	8160	8220	8281	8342	8402	8463	
59	8524	8584	8645	8706	8766	8827	8888	8948	9009	9070	
7160	9130	9191	9252	9312	9373	9433	9494	9555	9615	9676	
61	9737	9797	9858	9919	9979	0040	0101	0161	0222	0283	
62	8550343	0404	0464	0525	0586	0646	0707	0768	0828	0889	
63	0950	1010	1071	1131	1192	1253	1313	1374	1435	1495	
64	1556	1616	1677	1738	1798	1859	1919	1980	2041	2101	
65	2162	2223	2283	2344	2404	2465	2526	2586	2647	2707	
66	2768	2829	2889	2950	3010	3071	3132	3192	3253	3313	
67	3374	3435	3495	3556	3616	3677	3738	3798	3859	3919	
68	3980	4041	4101	4162	4222	4283	4343	4404	4465	4525	
69	4586	4646	4707	4768	4828	4889	4949	5010	5070	5131	
7170	5192	5252	5313	5373	5434	5494	5555	5616	5676	5737	
71	5797	5858	5918	5979	6039	6100	6161	6221	6282	6342	61
72	6403	6463	6524	6584	6645	6706	6766	6827	6887	6948	
73	7008	7069	7129	7190	7250	7311	7372	7432	7493	7553	
74	7614	7674	7735	7795	7856	7916	7977	8037	8098	8159	
75	8219	8280	8340	8401	8461	8522	8582	8643	8703	8764	
76	8824	8885	8945	9006	9066	9127	9187	9248	9308	9369	
77	9429	9490	9550	9611	9672	9732	9793	9853	9914	9974	
78	8560035	0095	0156	0216	0277	0337	0398	0458	0519	0579	
79	0640	0700	0761	0821	0882	0942	1002	1063	1123	1184	
7180	1244	1305	1365	1426	1486	1547	1607	1668	1728	1789	
81	1849	1910	1970	2031	2091	2152	2212	2273	2333	2394	
82	2454	2514	2575	2635	2696	2756	2817	2877	2938	2998	
83	3059	3119	3180	3240	3301	3361	3421	3482	3542	3603	
84	3663	3724	3784	3845	3905	3965	4026	4086	4147	4207	
85	4268	4328	4389	4449	4509	4570	4630	4691	4751	4812	
86	4872	4933	4993	5053	5114	5174	5235	5295	5356	5416	
87	5476	5537	5597	5658	5718	5779	5839	5899	5960	6020	
88	6081	6141	6202	6262	6322	6383	6443	6504	6564	6624	
89	6685	6745	6806	6866	6926	6987	7047	7108	7168	7229	
7190	7289	7349	7410	7470	7531	7591	7651	7712	7772	7832	
91	7893	7953	8014	8074	8134	8195	8255	8316	8376	8436	
92	8497	8557	8618	8678	8738	8799	8859	8919	8980	9040	
93	9101	9161	9221	9282	9342	9402	9463	9523	9584	9644	
94	9704	9765	9825	9885	9946	0006	0067	0127	0187	0248	
95	8570308	0368	0429	0489	0549	0610	0670	0730	0791	0851	
↓ { 61 ↓ { 6 | 12 | 18 | 24 | 31 | 37 | 43 | 49 | 55 ↓											

No.	0	1	2	3	4	5	6	7	8	9	D.
7196	8570912	0972	1032	1093	1153	1213	1274	1334	1394	1455	
97	1515	1575	1636	1696	1756	1817	1877	1937	1998	2058	
98	2118	2179	2239	2299	2360	2420	2480	2541	2601	2661	
99	2722	2782	2842	2903	2963	3023	3084	3144	3204	3265	
7200	3325	3385	3446	3506	3566	3627	3687	3747	3807	3868	
01	3928	3988	4049	4109	4169	4230	4290	4350	4411	4471	
02	4531	4591	4652	4712	4772	4833	4893	4953	5014	5074	
03	5134	5194	5255	5315	5375	5436	5496	5556	5616	5677	
04	5737	5797	5858	5918	5978	6038	6099	6159	6219	6280	
05	6340	6400	6460	6521	6581	41	6701	6762	6822	6882	
06	6943	7003	7063	7123	7184	244	7304	7364	7425	7485	
07	7545	7605	7666	7726	7786	7847	7907	7967	8027	8088	
08	8148	8208	8268	8329	8389	8449	8509	8570	8630	8690	
09	8750	8810	8871	8931	8991	9051	9112	9172	9232	9292	
7210	9353	9413	9473	9533	9594	9654	9714	9774	9835	9895	
11	9955	0015	0075	0136	0196	0256	0316	0377	0437	0497	
12	8580557	0617	0678	0738	0798	0858	0918	0979	1039	1099	
13	1159	1220	1280	1340	1400	1460	1521	1581	1641	1701	
14	1761	1822	1882	1942	2002	2062	2123	2183	2243	2303	
15	2363	2424	2484	2544	2604	2664	2724	2785	2845	2905	
16	2965	3025	3086	3146	3206	3266	3326	3387	3447	3507	
17	3657	3627	3687	3748	3808	3868	3928	3988	4048	4109	
18	4169	4229	4289	4349	4409	4470	4530	4590	4650	4710	
19	4770	4831	4891	4951	5011	5071	5131	5192	5252	5312	
7220	5372	5432	5492	5552	5613	5673	5733	5793	5853	5913	
21	5973	6034	6094	6154	6214	6274	6334	6394	6455	6515	
22	6575	6635	6695	6755	6815	6876	6936	6996	7056	7116	
23	7176	7236	7296	7357	7417	7477	7537	7597	7657	7717	
24	7777	7837	7898	7958	8018	8078	8138	8198	8258	8318	
25	8379	8439	8499	8559	8619	8679	8739	8799	8859	8919	
26	8980	9040	9100	9160	9220	9280	9340	9400	9460	9520	
27	9581	9641	9701	9761	9821	9881	9941	0001	0061	0121	
28	8590181	0242	0302	0362	0422	0482	0542	0602	0662	0722	
29	0782	0842	0902	0962	1023	1083	1143	1203	1263	1323	
7230	1383	1443	1503	1563	1623	1683	1743	1803	1863	1924	
31	1984	2044	2104	2164	2224	2284	2344	2404	2464	2524	
32	2584	2644	2704	2764	2824	2884	2944	3005	3065	3125	
33	3185	3245	3305	3365	3425	3485	3545	3605	3665	3725	
34	3785	3845	3905	3965	4025	4085	4145	4205	4265	4325	
35	4385	4445	4505	4565	4625	4685	4746	4806	4866	4926	
36	4986	5046	5106	5166	5226	5286	5346	5406	5466	5526	
37	5586	5646	5706	5766	5826	5886	5946	6006	6066	6126	
38	6186	6246	6306	6366	6426	6486	6546	6606	6666	6726	
39	6786	6846	6906	6966	7026	7086	7146	7206	7266	7326	
7240	7386	7446	7506	7566	7626	7686	7746	7806	7866	7925	
41	7985	8045	8105	8165	8225	8285	8345	8405	8465	8525	
60	6	12	18	24	30	36	42	48	54		

No.	0	1	2	3	4	5	6	7	8	9	D.
7242	8598585	8645	8705	8765	8825	8885	8945	9005	9065	9125	
43	9185	9245	9305	9365	9425	9485	9545	9605	9665	9724	
44	9784	9844	9904	9964	0024	0084	0144	0204	0264	0324	
45	8600384	0444	0504	0564	0624	0684	0744	0803	0863	0923	
46	0983	1043	1103	1163	1223	1283	1343	1403	1463	1523	
47	1583	1643	1702	1762	1822	1882	1942	2002	2062	2122	
48	2182	2242	2302	2362	2422	2481	2541	2601	2661	2721	
49	2781	2841	2901	2961	3021	3081	3140	3200	3260	3320	
7250	3380	3440	3500	3560	3620	3680	3739	3799	3859	3919	
51	3979	4039	4099	4159	4219	4279	4338	4398	4458	4518	
52	4578	4638	4698	4758	4817	4877	4937	4997	5057	5117	
53	5177	5237	5297	5356	5416	5476	5536	5596	5656	5716	
54	5776	5835	5895	5955	6015	6075	6135	6195	6254	6314	
55	6374	6434	6494	6554	6614	6673	6733	6793	6853	6913	
56	6973	7033	7092	7152	7212	7272	7332	7392	7452	7511	
57	7571	7631	7691	7751	7811	7870	7930	7990	8050	8110	
58	8170	8229	8289	8349	8409	8469	8529	8588	8648	8708	
59	8768	8828	8888	8947	9007	9067	9127	9187	9247	9306	
7260	9366	9426	9486	9546	9605	9665	9725	9785	9845	9905	
61	9964	0024	0084	0144	0204	0263	0323	0383	0443	0503	
62	8610562	0622	0682	0742	0802	0861	0921	0981	1041	1101	
63	1160	1220	1280	1340	1400	1459	1519	1579	1639	1699	
64	1758	1818	1878	1938	1997	2057	2117	2177	2237	2296	
65	2356	2416	2476	2536	2595	2655	2715	2775	2834	2894	
66	2954	3014	3073	3133	3193	3253	3313	3372	3432	3492	
67	3552	3611	3671	3731	3791	3850	3910	3970	4030	4089	
68	4149	4209	4269	4328	4388	4448	4508	4567	4627	4687	
69	4747	4806	4866	4926	4986	5045	5105	5165	5225	5284	
7270	5344	5404	5464	5523	5583	5643	5703	5762	5822	5882	
71	5941	6001	6061	6121	6180	6240	6300	6360	6419	6479	
72	6539	6598	6658	6718	6778	6837	6897	6957	7016	7076	
73	7136	7196	7255	7315	7375	7434	7494	7554	7614	7674	
74	7733	7793	7852	7912	7972	8031	8091	8151	8211	8270	
75	8330	8390	8449	8509	8569	8628	8688	8748	8808	8867	
76	8927	8987	9046	9106	9166	9225	9285	9345	9404	9464	
77	9524	9583	9643	9703	9762	9822	9882	9941	0001	0061	
78	8620121	0180	0240	0300	0359	0419	0479	0538	0598	0658	
79	0717	0777	0837	0896	0956	1016	1075	1135	1194	1254	
7280	1314	1373	1433	1493	1552	1612	1672	1731	1791	1851	
81	1910	1970	2030	2089	2149	2209	2268	2328	2387	2447	
82	2507	2566	2626	2686	2745	2805	2865	2924	2984	3043	
83	3103	3163	3222	3282	3342	3401	3461	3520	3580	3640	
84	3699	3759	3819	3878	3938	3997	4057	4117	4176	4236	
85	4296	4355	4415	4474	4534	4594	4653	4713	4772	4832	
86	4892	4951	5011	5070	5130	5190	5249	5309	5368	5428	
87	5488	5547	5607	5666	5726	5786	5845	5905	5964	6024	
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7288	8626084	6143	6203	6262	6322	6382	6441	6501	6560	6620	
89	6680	6739	6799	6858	6918	6977	7037	7097	7156	7216	
7290	7275	7335	7394	7454	7514	7573	7633	7692	7752	7811	
91	7871	7931	7990	8050	8109	8169	8228	8288	8347	8407	
92	8467	8526	8586	8645	8705	8764	8824	8883	8943	9003	
93	9062	9122	9181	9241	9300	9360	9419	9479	9539	9598	
94	9658	9717	9777	9836	9896	9955	0015	0074	0134	0193	
95	8630263	0312	0372	0432	0491	0551	0610	0670	0729	0789	
96	0848	0908	0967	1027	1086	1146	1205	1265	1324	1384	
97	1443	1503	1562	1622	1682	1741	1801	1860	1920	1979	
98	2039	2098	2158	2217	2277	2337	2396	2455	2515	2574	
99	2634	2693	2753	2812	2872	2931	2991	3050	3110	3169	
7300	3229	3288	3348	3407	3467	3526	3586	3645	3705	3764	
01	3823	3883	3942	4002	4061	4121	4180	4240	4299	4359	
02	4418	4478	4537	4597	4656	4716	4775	4835	4894	4954	
03	5013	5072	5132	5191	5251	5310	5370	5429	5489	5548	
04	5608	5667	5727	5786	5845	5905	5964	6024	6083	6143	
05	6202	6262	6321	6381	6440	6499	6559	6618	6678	6737	
06	6797	6856	6916	6975	7034	7094	7153	7213	7272	7332	
07	7391	7451	7510	7569	7629	7688	7748	7807	7867	7926	
08	7985	8045	8104	8164	8223	8283	8342	8401	8461	8520	
09	8580	8639	8698	8758	8817	8877	8936	8996	9055	9114	
7310	9174	9233	9293	9352	9411	9471	9530	9590	9649	9708	
11	9768	9827	9887	9946	0005	0065	0124	0184	0243	0302	60
12	8640362	0421	0481	0540	0599	0659	0718	0778	0837	0896	
13	0956	1015	1075	1134	1193	1253	1312	1371	1431	1490	
14	1550	1609	1668	1728	1787	1846	1906	1965	2025	2084	
15	2143	2203	2262	2321	2381	2440	2500	2559	2618	2678	
16	2737	2796	2856	2915	2974	3034	3093	3152	3212	3271	
17	3331	3390	3449	3509	3568	3627	3687	3746	3805	3865	
18	3934	3993	4053	4112	4171	4231	4290	4350	4399	4458	
19	4517	4577	4636	4695	4755	4814	4873	4933	4992	5051	
7320	5111	5170	5229	5289	5348	5407	5467	5526	5585	5645	
21	5704	5763	5823	5882	5941	6001	6060	6119	6179	6238	
22	6297	6357	6416	6475	6534	6594	6653	6712	6772	6831	
23	6890	6950	7009	7068	7128	7187	7246	7305	7365	7424	
24	7483	7543	7602	7661	7721	7780	7839	7898	7958	8017	
25	8076	8136	8195	8254	8313	8373	8432	8491	8551	8610	
26	8669	8728	8788	8847	8906	8966	9025	9084	9143	9203	
27	9262	9321	9380	9440	9499	9558	9618	9677	9736	9795	
28	9855	9914	9973	0032	0092	0151	0210	0269	0329	0388	
29	8650447	0506	0566	0625	0684	0743	0803	0862	0921	0980	
7330	1040	1099	1158	1217	1277	1336	1395	1454	1514	1573	
31	1632	1691	1751	1810	1869	1928	1988	2047	2106	2165	
32	2235	2294	2353	2412	2471	2531	2580	2639	2698	2758	
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36	4593	4652	4712	4771	4830	4889	4948	5008	5067	5126	
37	5185	5244	5304	5363	5422	5481	5540	5600	5659	5718	
38	5777	5836	5895	5955	6014	6073	6132	6191	6251	6310	
39	6369	6428	6487	6546	6606	6665	6724	6783	6842	6901	
7340	6961	7020	7079	7138	7197	7256	7316	7375	7434	7493	
41	7552	7611	7671	7730	7789	7848	7907	7966	8025	8085	
42	8144	8203	8262	8321	8380	8440	8499	8558	8617	8676	
43	8735	8794	8854	8913	8972	9031	9090	9149	9208	9268	
44	9327	9386	9445	9504	9563	9622	9681	9741	9800	9859	
45	9918	9977	0036	0095	0155	0214	0273	0332	0391	0450	
46	8660509	0568	0627	0687	0746	0805	0864	0923	0982	1041	
47	1100	1160	1219	1278	1337	1396	1455	1514	1573	1632	
48	1691	1751	1810	1869	1928	1987	2046	2105	2164	2223	
49	2282	2342	2401	2460	2519	2578	2637	2696	2755	2814	
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51	3464	3523	3582	3641	3701	3760	3819	3878	3937	3996	
52	4055	4114	4173	4232	4291	4350	4409	4468	4528	4587	
53	4646	4705	4764	4823	4882	4941	5000	5059	5118	5177	
54	5236	5295	5354	5413	5472	5532	5591	5650	5709	5768	
55	5827	5886	5945	6004	6063	6122	6181	6240	6299	6358	
56	6417	6476	6535	6594	6653	6712	6771	6830	6889	6949	59
57	7008	7067	7126	7185	7244	7303	7362	7421	7480	7539	
58	7598	7657	7716	7775	7834	7893	7952	8011	8070	8129	
59	8188	8247	8306	8365	8424	8483	8542	8601	8660	8719	
7360	8778	8837	8896	8955	9014	9073	9132	9191	9250	9309	
61	9368	9427	9486	9545	9604	9663	9722	9781	9840	9899	
62	9958	0017	0076	0135	0194	0253	0312	0371	0430	0489	
63	8670548	0607	0666	0725	0784	0843	0902	0961	1020	1079	
64	1138	1197	1256	1315	1374	1433	1492	1551	1610	1669	
65	1728	1786	1845	1904	1963	2022	2081	2140	2199	2258	
66	2317	2376	2435	2494	2553	2612	2671	2730	2789	2848	
67	2907	2966	3025	3084	3142	3201	3260	3319	3378	3437	
68	3496	3555	3614	3673	3732	3791	3850	3909	3968	4027	
69	4086	4145	4203	4262	4321	4380	4439	4498	4557	4616	
7370	4675	4734	4793	4852	4911	4970	5028	5087	5146	5205	
71	5264	5323	5382	5441	5500	5559	5618	5677	5735	5794	
72	5853	5912	5971	6030	6089	6148	6207	6266	6325	6383	
73	6442	6501	6560	6619	6678	6737	6796	6855	6914	6972	
74	7031	7090	7149	7208	7267	7326	7385	7444	7502	7561	
75	7620	7679	7738	7797	7856	7915	7974	8032	8091	8150	
76	8209	8268	8327	8386	8445	8503	8562	8621	8680	8739	
77	8798	8857	8916	8974	9033	9092	9151	9210	9269	9328	
78	9387	9445	9504	9563	9622	9681	9740	9799	9857	9916	
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7380	8680564	0622	0681	0740	0799	0858	0917	0976	1034	1093	
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82	1740	1799	1858	1917	1976	2035	2093	2152	2211	2270	
83	2329	2388	2446	2505	2564	2623	2682	2740	2799	2858	
84	2917	2976	3035	3093	3152	3211	3270	3329	3387	3446	
85	3505	3564	3623	3681	3740	3799	3858	3917	3975	4034	
86	4093	4152	4211	4269	4328	4387	4446	4505	4563	4622	
87	4681	4740	4799	4857	4916	4975	5034	5093	5151	5210	
88	5269	5328	5386	5445	5504	5563	5622	5680	5739	5798	
89	5857	5915	5974	6033	6092	6151	6209	6268	6327	6386	
7390	6444	6503	6562	6621	6679	6738	6797	6856	6915	6973	
91	7032	7091	7150	7208	7267	7326	7385	7443	7502	7561	
92	7620	7678	7737	7796	7855	7913	7972	8031	8090	8148	
93	8207	8266	8325	8383	8442	8501	8560	8618	8677	8736	
94	8794	8853	8912	8971	9029	9088	9147	9206	9264	9323	
95	9382	9441	9499	9558	9617	9675	9734	9793	9852	9910	
96	9969	0028	0086	0145	0204	0263	0321	0380	0439	0497	
97	8690556	0615	0674	0732	0791	0850	0908	0967	1026	1085	
98	1143	1202	1261	1319	1378	1437	1495	1554	1613	1672	
99	1730	1789	1848	1906	1965	2024	2082	2141	2200	2259	
7400	2317	2376	2435	2493	2552	2611	2669	2728	2787	2845	
01	2904	2963	3021	3080	3139	3197	3256	3315	3373	3432	
02	3491	3549	3608	3667	3725	3784	3843	3901	3960	4019	59
03	4077	4136	4195	4253	4312	4371	4429	4488	4547	4605	
04	4664	4723	4781	4840	4899	4957	5016	5075	5133	5192	
05	5251	5309	5368	5427	5485	5544	5603	5661	5720	5778	
06	5837	5896	5954	6013	6072	6130	6189	6248	6306	6365	
07	6423	6482	6541	6599	6658	6717	6775	6834	6892	6951	
08	7010	7068	7127	7186	7244	7303	7361	7420	7479	7537	
09	7596	7655	7713	7772	7830	7889	7948	8006	8065	8123	
7410	8182	8241	8299	8358	8417	8475	8534	8592	8651	8710	
11	8768	8827	8885	8944	9003	9061	9120	9178	9237	9296	
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13	9940	9999	0057	0116	0174	0233	0292	0350	0409	0467	
14	8700526	0584	0643	0702	0760	0819	0877	0936	0994	1053	
15	1112	1170	1229	1287	1346	1404	1463	1522	1580	1639	
16	1697	1756	1814	1873	1931	1990	2049	2107	2166	2224	
17	2283	2341	2400	2458	2517	2576	2634	2693	2751	2810	
18	2868	2927	2985	3044	3102	3161	3220	3278	3337	3395	
19	3454	3512	3571	3629	3688	3746	3805	3863	3922	3981	
7420	4039	4098	4156	4215	4273	4332	4390	4449	4507	4566	
21	4624	4683	4741	4800	4858	4917	4975	5034	5092	5151	
22	5210	5268	5327	5385	5444	5502	5561	5619	5678	5736	
23	5795	5853	5912	5970	6029	6087	6146	6204	6263	6321	
24	6380	6438	6497	6555	6614	6672	6731	6789	6848	6906	
25	6965	7023	7082	7140	7199	7257	7316	7374	7432	7491	
59	6	12	18	24	30	35	41	47	53		

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7426	8707549	7608	7666	7725	7783	7842	7900	7959	8017	8076	
27	8134	8193	8251	8310	8368	8427	8485	8544	8602	8660	
28	8719	8777	8836	8894	8953	9011	9070	9128	9187	9245	
29	9304	9362	9421	9479	9537	9596	9654	9713	9771	9830	
7430	9888	9947	0005	0063	0122	0180	0239	0297	0356	0414	
31	8710473	0531	0589	0648	0706	0765	0823	0882	0940	0999	
32	1057	1115	1174	1232	1291	1349	1408	1466	1524	1583	
33	1641	1700	1758	1817	1875	1933	1992	2050	2109	2167	
34	2226	2284	2342	2401	2459	2518	2576	2634	2693	2751	
35	2810	2868	2927	2985	3043	3102	3160	3219	3277	3335	
36	3394	3452	3511	3569	3627	3686	3744	3803	3861	3919	
37	3978	4036	4095	4153	4211	4270	4328	4387	4445	4503	
38	4562	4620	4679	4737	4795	4854	4912	4970	5029	5087	
39	5146	5204	5262	5321	5379	5437	5496	5554	5613	5671	
7440	5729	5788	5846	5904	5963	6021	6080	6138	6196	6255	
41	6313	6371	6430	6488	6546	6605	6663	6722	6780	6838	
42	6897	6955	7013	7072	7130	7188	7247	7305	7363	7422	
43	7480	7539	7597	7655	7714	7772	7830	7889	7947	8005	
44	8064	8122	8180	8239	8297	8355	8414	8472	8530	8589	
45	8647	8705	8764	8822	8880	8939	8997	9055	9114	9172	
46	9230	9289	9347	9405	9464	9522	9580	9639	9697	9755	
47	9814	9872	9930	9988	0047	0105	0163	0222	0280	0338	
48	8720397	0455	0513	0572	0630	0688	0747	0805	0863	0921	59
49	0980	1038	1096	1155	1213	1271	1330	1388	1446	1504	
7450	1563	1621	1679	1738	1796	1854	1912	1971	2029	2087	
51	2146	2204	2262	2320	2379	2437	2495	2554	2612	2670	
52	2728	2787	2845	2903	2962	3020	3078	3136	3195	3253	
53	3311	3369	3428	3486	3544	3603	3661	3719	3777	3836	
54	3894	3952	4010	4069	4127	4185	4243	4302	4360	4418	
55	4476	4535	4593	4651	4709	4768	4826	4884	4942	5001	
56	5059	5117	5175	5234	5292	5350	5408	5467	5525	5583	
57	5641	5700	5758	5816	5874	5933	5991	6049	6107	6166	
58	6224	6282	6340	6398	6457	6515	6573	6631	6690	6748	
59	6806	6864	6923	6981	7039	7097	7155	7214	7272	7330	
7460	7388	7446	7505	7563	7621	7679	7738	7796	7854	7912	
61	7970	8029	8087	8145	8203	8261	8320	8378	8436	8494	
62	8552	8611	8669	8727	8785	8843	8902	8960	9018	9076	
63	9134	9193	9251	9309	9367	9425	9484	9542	9600	9658	
64	9716	9774	9833	9891	9949	0007	0065	0124	0182	0240	
65	8730298	0356	0414	0473	0531	0589	0647	0705	0764	0822	
66	0880	0938	0996	1054	1113	1171	1229	1287	1345	1403	
67	1462	1520	1578	1636	1694	1752	1810	1869	1927	1985	
68	2043	2101	2159	2218	2276	2334	2392	2450	2508	2566	
69	2625	2683	2741	2799	2857	2915	2973	3032	3090	3148	
7470	3206	3264	3322	3380	3439	3497	3555	3613	3671	3729	
71	3787	3845	3904	3962	4020	4078	4136	4194	4252	4311	
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7472	8784369	4427	4485	4543	4601	4659	4717	4775	4834	4892	
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74	5531	5589	5647	5705	5763	5821	5880	5938	5996	6054	
75	6112	6170	6228	6286	6344	6402	6461	6519	6577	6635	
76	6693	6751	6809	6867	6925	6983	7041	7100	7158	7216	
77	7274	7332	7390	7448	7506	7564	7622	7680	7738	7797	
78	7855	7913	7971	8029	8087	8145	8203	8261	8319	8377	
79	8435	8493	8551	8610	8668	8726	8784	8842	8900	8958	
7480	9016	9074	9132	9190	9248	9306	9364	9422	9480	9538	
81	9597	9655	9713	9771	9829	9887	9945	0003	0061	0119	
82	8740177	0235	0293	0351	0409	0467	0525	0583	0641	0699	
83	0757	0815	0874	0932	0990	1048	1106	1164	1222	1280	
84	1338	1396	1454	1512	1570	1628	1686	1744	1802	1860	
85	1918	1976	2034	2092	2150	2208	2266	2324	2382	2440	
86	2498	2556	2614	2672	2730	2788	2846	2904	2962	3020	
87	3078	3136	3194	3252	3310	3368	3426	3484	3542	3600	
88	3658	3716	3774	3832	3890	3948	4006	4064	4122	4180	
89	4238	4296	4354	4412	4470	4528	4586	4644	4702	4760	
7490	4818	4876	4934	4992	5050	5108	5166	5224	5282	5340	
91	5398	5456	5514	5572	5630	5688	5746	5804	5862	5920	
92	5978	6036	6094	6152	6210	6268	6325	6383	6441	6499	
93	6557	6615	6673	6731	6789	6847	6905	6963	7021	7079	
94	7137	7195	7253	7311	7369	7427	7485	7543	7600	7658	
95	7716	7774	7832	7890	7948	8006	8064	8122	8180	8238	
96	8296	8354	8412	8470	8528	8585	8643	8701	8759	8817	
97	8875	8933	8991	9049	9107	9165	9223	9281	9339	9396	
98	9454	9512	9570	9628	9686	9744	9802	9860	9918	9976	
99	8750034	0091	0149	0207	0265	0323	0381	0439	0497	0555	
7500	0613	0671	0728	0786	0844	0902	0960	1018	1076	1134	
01	1192	1250	1307	1365	1423	1481	1539	1597	1655	1713	
02	1771	1828	1886	1944	2002	2060	2118	2176	2234	2292	
03	2349	2407	2465	2523	2581	2639	2697	2755	2813	2870	
04	2928	2986	3044	3102	3160	3218	3275	3333	3391	3449	
05	3507	3565	3623	3681	3738	3796	3854	3912	3970	4028	
06	4086	4143	4201	4259	4317	4375	4433	4491	4548	4606	
07	4664	4722	4780	4838	4896	4953	5011	5069	5127	5185	
08	5243	5300	5358	5416	5474	5532	5590	5648	5705	5763	
09	5821	5879	5937	5995	6053	6110	6168	6226	6284	6342	
7510	6399	6457	6515	6573	6631	6689	6746	6804	6862	6920	
11	6978	7035	7093	7151	7209	7267	7325	7382	7440	7498	
12	7556	7614	7671	7729	7787	7845	7903	7960	8018	8076	
13	8134	8192	8249	8307	8365	8423	8481	8539	8596	8654	
14	8712	8770	8828	8885	8943	9001	9059	9116	9174	9232	
15	9290	9348	9405	9463	9521	9579	9637	9694	9752	9810	
16	9868	9925	9983	0041	0099	0157	0214	0272	0330	0388	
17	8760446	0503	0561	0619	0677	0734	0792	0850	0908	0965	
58											
58 { 6 { 12 { 17 { 23 { 29 { 35 { 41 { 46 { 52 {											

No.	0	1	2	3	4	5	6	7	8	9	D.
7518	8761023	1081	1139	1197	1254	1312	1370	1428	1485	1543	
19	1601	1659	1716	1774	1832	1890	1947	2005	2063	2121	
7520	2178	2236	2294	2352	2409	2467	2525	2583	2640	2698	
21	2756	2814	2871	2929	2987	3045	3102	3160	3218	3276	
22	3333	3391	3449	3506	3564	3622	3680	3737	3795	3853	
23	3911	3968	4026	4084	4142	4199	4257	4315	4372	4430	
24	4488	4546	4603	4661	4719	4776	4834	4892	4950	5007	
25	5085	5123	5180	5238	5296	5354	5411	5469	5527	5584	
26	5642	5700	5758	5815	5873	5931	5988	6046	6104	6161	
27	6219	6277	6335	6392	6450	6508	6565	6623	6681	6738	
28	6796	6854	6911	6969	7027	7085	7142	7200	7258	7315	
29	7373	7431	7488	7546	7604	7661	7719	7777	7834	7892	
7530	7950	8007	8065	8123	8180	8238	8296	8353	8411	8469	
31	8526	8584	8642	8699	8757	8815	8872	8930	8988	9045	
32	9103	9161	9218	9276	9334	9391	9449	9507	9564	9622	
33	9680	9737	9795	9853	9910	9968	0026	0083	0141	0199	
34	8770256	0314	0371	0429	0487	0544	0602	0660	0717	0775	
35	0833	0890	0948	1005	1063	1121	1178	1236	1294	1351	
36	1409	1467	1524	1582	1639	1697	1755	1812	1870	1928	
37	1985	2043	2100	2158	2216	2273	2331	2388	2446	2504	
38	2561	2619	2677	2734	2792	2849	2907	2965	3022	3080	
39	3137	3195	3253	3310	3368	3425	3483	3541	3598	3656	
7540	3713	3771	3829	3886	3944	4001	4059	4117	4174	4232	
41	4289	4347	4405	4462	4520	4577	4635	4693	4750	4808	58
42	4865	4923	4980	5038	5096	5153	5211	5268	5326	5384	
43	5441	5499	5556	5614	5671	5729	5787	5844	5902	5959	
44	6017	6074	6132	6189	6247	6305	6362	6420	6477	6535	
45	6592	6650	6708	6765	6823	6880	6938	6995	7053	7110	
46	7168	7226	7283	7341	7398	7456	7513	7571	7628	7686	
47	7743	7801	7859	7916	7974	8031	8089	8146	8204	8261	
48	8319	8376	8434	8492	8549	8607	8664	8722	8779	8837	
49	8894	8952	9009	9067	9124	9182	9239	9297	9354	9412	
7550	9470	9527	9585	9642	9700	9757	9815	9872	9930	9987	
51	8780045	0102	0160	0217	0275	0332	0390	0447	0505	0562	
52	0620	0677	0735	0792	0850	0907	0965	1022	1080	1137	
53	1195	1252	1310	1367	1425	1482	1540	1597	1655	1712	
54	1770	1827	1885	1942	2000	2057	2115	2172	2230	2287	
55	2345	2402	2460	2517	2575	2632	2690	2747	2805	2862	
56	2919	2977	3034	3092	3149	3207	3264	3322	3379	3437	
57	3494	3552	3609	3667	3724	3782	3839	3896	3954	4011	
58	4069	4126	4184	4241	4299	4356	4414	4471	4529	4586	
59	4643	4701	4758	4816	4873	4931	4988	5046	5103	5161	
7560	5218	5275	5333	5390	5448	5505	5563	5620	5678	5735	
61	5792	5850	5907	5965	6022	6080	6137	6194	6252	6309	
62	6387	6444	6482	6539	6596	6654	6711	6769	6826	6884	
63	6941	6998	7056	7113	7171	7228	7286	7343	7400	7458	
	58	6	12	17	23	29	35	41	46	52	

No.	0	1	2	3	4	5	6	7	8	9	D.
7564	8787515	7573	7630	7687	7745	7802	7860	7917	7975	8032	
65	8089	8147	8204	8262	8319	8376	8434	8491	8549	8606	
66	8663	8721	8778	8836	8893	8950	9008	9065	9123	9180	
67	9237	9295	9352	9410	9467	9524	9582	9639	9696	9754	
68	9811	9869	9926	9983	0041	0098	0156	0213	0270	0328	
69	8790385	0442	0500	0557	0615	0672	0729	0787	0844	0901	
7570	0959	1016	1074	1131	1188	1246	1303	1360	1418	1475	
71	1532	1590	1647	1705	1762	1819	1877	1934	1991	2049	
72	2106	2163	2221	2278	2335	2393	2450	2508	2565	2622	
73	2680	2737	2794	2852	2909	2966	3024	3081	3138	3196	
74	3253	3310	3368	3425	3482	3540	3597	3654	3712	3769	
75	3826	3884	3941	3998	4056	4113	4170	4228	4285	4342	
76	4400	4457	4514	4572	4629	4686	4744	4801	4858	4916	
77	4973	5030	5088	5145	5202	5259	5317	5374	5431	5489	
78	5546	5603	5661	5718	5775	5833	5890	5947	6004	6062	
79	6119	6176	6234	6291	6348	6406	6463	6520	6577	6635	
7580	6692	6749	6807	6864	6921	6979	7036	7093	7150	7208	
81	7265	7322	7380	7437	7494	7551	7609	7666	7723	7781	
82	7838	7895	7952	8010	8067	8124	8181	8239	8296	8353	
83	8411	8468	8525	8582	8640	8697	8754	8811	8869	8926	
84	8983	9041	9098	9155	9212	9270	9327	9384	9441	9499	
85	9556	9613	9670	9728	9785	9842	9899	9957	0014	0071	
86	8800128	0186	0243	0300	0357	0415	0472	0529	0586	0644	
87	0701	0758	0815	0873	0930	0987	1044	1102	1159	1216	
88	1273	1330	1388	1445	1502	1559	1617	1674	1731	1788	
89	1846	1903	1960	2017	2074	2132	2189	2246	2303	2361	
7590	2418	2475	2532	2589	2647	2704	2761	2818	2875	2933	
91	2990	3047	3104	3162	3219	3276	3333	3390	3448	3505	
92	3562	3619	3676	3734	3791	3848	3905	3962	4020	4077	
93	4134	4191	4248	4306	4363	4420	4477	4534	4592	4649	
94	4706	4763	4820	4877	4935	4992	5049	5106	5163	5221	
95	5278	5335	5392	5449	5507	5564	5621	5678	5735	5792	
96	5850	5907	5964	6021	6078	6135	6193	6250	6307	6364	
97	6421	6478	6536	6593	6650	6707	6764	6821	6879	6936	
98	6993	7050	7107	7164	7222	7279	7336	7393	7450	7507	
99	7564	7622	7679	7736	7793	7850	7907	7964	8022	8079	
7600	8136	8193	8250	8307	8364	8422	8479	8536	8593	8650	
01	8707	8764	8822	8879	8936	8993	9050	9107	9164	9222	
02	9279	9336	9393	9450	9507	9564	9621	9679	9736	9793	
03	9850	9907	9964	0021	0078	0136	0193	0250	0307	0364	
04	8810421	0478	0535	0592	0650	0707	0764	0821	0878	0935	
05	0992	1049	1106	1163	1221	1278	1335	1392	1449	1506	
06	1563	1620	1677	1735	1792	1849	1906	1963	2020	2077	
07	2134	2191	2248	2305	2363	2420	2477	2534	2591	2648	
08	2705	2762	2819	2876	2933	2990	3048	3105	3162	3219	
09	3276	3333	3390	3447	3504	3561	3618	3675	3732	3789	
57	6	11	17	23	29	34	40	46	51		

No.	0	1	2	3	4	5	6	7	8	9	D.
7610	8813847	3904	3961	4018	4075	4132	4189	4246	4303	4360	
11	4417	4474	4531	4588	4645	4703	4760	4817	4874	4931	
12	4988	5045	5102	5159	5216	5273	5330	5387	5444	5501	
13	5558	5615	5672	5729	5786	5844	5901	5958	6015	6072	
14	6129	6186	6243	6300	6357	6414	6471	6528	6585	6642	
15	6699	6756	6813	6870	6927	6984	7041	7098	7155	7212	
16	7269	7326	7383	7440	7497	7554	7611	7669	7726	7783	
17	7840	7897	7954	8011	8068	8125	8182	8239	8296	8353	
18	8410	8467	8524	8581	8638	8695	8752	8809	8866	8923	
19	8980	9037	9094	9151	9208	9265	9322	9379	9436	9493	
7620	9550	9607	9664	9721	9778	9835	9892	9949	0006	0063	
21	8820120	0177	0234	0291	0348	0405	0462	0519	0575	0632	
22	0689	0746	0803	0860	0917	0974	1031	1088	1145	1202	
23	1259	1316	1373	1430	1487	1544	1601	1658	1715	1772	
24	1829	1886	1943	2000	2057	2114	2171	2228	2285	2342	
25	2398	2455	2512	2569	2626	2683	2740	2797	2854	2911	
26	2968	3025	3082	3139	3196	3253	3310	3367	3424	3481	
27	3537	3594	3651	3708	3765	3822	3879	3936	3993	4050	
28	4107	4164	4221	4278	4335	4392	4448	4505	4562	4619	
29	4676	4733	4790	4847	4904	4961	5018	5075	5132	5188	
7630	5245	5302	5359	5416	5473	5530	5587	5644	5701	5758	
31	5815	5871	5928	5985	6042	6099	6156	6213	6270	6327	
32	6384	6441	6497	6554	6611	6668	6725	6782	6839	6896	
33	6953	7010	7066	7123	7180	7237	7294	7351	7408	7465	
34	7522	7578	7635	7692	7749	7806	7863	7920	7977	8034	
35	8090	8147	8204	8261	8318	8375	8432	8489	8545	8602	
36	8659	8716	8773	8830	8887	8944	9000	9057	9114	9171	
37	9228	9285	9342	9399	9455	9512	9569	9626	9683	9740	
38	9797	9853	9910	9967	0024	0081	0138	0195	0251	0308	
39	8830365	0422	0479	0536	0593	0649	0706	0763	0820	0877	
7640	0934	0990	1047	1104	1161	1218	1275	1331	1388	1445	
41	1502	1559	1616	1673	1729	1786	1843	1900	1957	2014	
42	2070	2127	2184	2241	2298	2354	2411	2468	2525	2582	
43	2639	2695	2752	2809	2866	2923	2980	3036	3093	3150	
44	3207	3264	3320	3377	3434	3491	3548	3604	3661	3718	
45	3775	3832	3889	3945	4002	4059	4116	4173	4229	4286	
46	4343	4400	4457	4513	4570	4627	4684	4741	4797	4854	
47	4911	4968	5024	5081	5138	5195	5252	5308	5365	5422	
48	5479	5536	5592	5649	5706	5763	5819	5876	5933	5990	
49	6047	6103	6160	6217	6274	6330	6387	6444	6501	6558	
7650	6614	6671	6728	6785	6841	6898	6955	7012	7068	7125	
51	7182	7239	7296	7352	7409	7466	7523	7579	7636	7693	
52	7750	7806	7863	7920	7977	8033	8090	8147	8204	8260	
53	8317	8374	8431	8487	8544	8601	8658	8714	8771	8828	
54	8885	8941	8998	9055	9112	9168	9225	9282	9338	9395	
55	9452	9509	9565	9622	9679	9736	9792	9849	9906	9963	

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No.	0	1	2	3	4	5	6	7	8	9	D.
7656	8840019	0076	0133	0189	0246	0303	0360	0416	0473	0530	
57	0586	0643	0700	0757	0813	0870	0927	0983	1040	1097	
58	1154	1210	1267	1324	1380	1437	1494	1551	1607	1664	
59	1721	1777	1834	1891	1948	2004	2061	2118	2174	2231	
7660	2288	2344	2401	2458	2514	2571	2628	2685	2741	2798	
61	2855	2911	2968	3025	3081	3138	3195	3251	3308	3365	
62	3421	3478	3535	3592	3648	3705	3762	3818	3875	3932	
63	3988	4045	4102	4158	4215	4272	4328	4385	4442	4498	
64	4555	4612	4668	4725	4782	4838	4895	4952	5008	5065	
65	5122	5178	5235	5292	5348	5405	5462	5518	5575	5631	
66	5688	5745	5801	5858	5915	5971	6028	6085	6141	6198	
67	6255	6311	6368	6425	6481	6538	6594	6651	6708	6764	
68	6821	6878	6934	6991	7048	7104	7161	7217	7274	7331	
69	7387	7444	7501	7557	7614	7671	7727	7784	7840	7897	
7670	7954	8010	8067	8124	8180	8237	8293	8350	8407	8463	
71	8520	8576	8633	8690	8746	8803	8860	8916	8973	9029	
72	9086	9143	9199	9256	9312	9369	9426	9482	9539	9595	
73	9652	9709	9765	9822	9878	9935	9992	0048	0105	0161	
74	8850218	0275	0331	0388	0444	0501	0557	0614	0671	0727	
75	0784	0840	0897	0954	1010	1067	1123	1180	1237	1293	
76	1350	1406	1463	1519	1576	1633	1689	1746	1802	1859	
77	1915	1972	2029	2085	2142	2198	2255	2311	2368	2425	
78	2481	2538	2594	2651	2707	2764	2820	2877	2934	2990	
79	3047	3103	3160	3216	3273	3329	3386	3443	3499	3556	57
7680	3612	3669	3725	3782	3838	3895	3951	4008	4065	4121	
81	4178	4234	4291	4347	4404	4460	4517	4573	4630	4686	
82	4743	4800	4856	4913	4969	5026	5082	5139	5195	5252	
83	5308	5365	5421	5478	5534	5591	5647	5704	5761	5817	
84	5874	5930	5987	6043	6100	6156	6213	6269	6326	6382	
85	6439	6495	6552	6608	6665	6721	6778	6834	6891	6947	
86	7004	7060	7117	7173	7230	7286	7343	7399	7456	7512	
87	7569	7625	7682	7738	7795	7851	7908	7964	8021	8077	
88	8134	8190	8247	8303	8360	8416	8473	8529	8586	8642	
89	8699	8755	8812	8868	8925	8981	9037	9094	9150	9207	
7690	9263	9320	9376	9433	9489	9546	9602	9659	9715	9772	
91	9828	9885	9941	9998	0054	0110	0167	0223	0280	0336	
92	8860393	0449	0506	0562	0619	0675	0732	0788	0844	0901	
93	0957	1014	1070	1127	1183	1240	1296	1352	1409	1465	
94	1522	1578	1635	1691	1748	1804	1860	1917	1973	2030	
95	2086	2143	2199	2256	2312	2368	2425	2481	2538	2594	
96	2651	2707	2763	2820	2876	2933	2989	3046	3102	3158	
97	3215	3271	3328	3384	3441	3497	3553	3610	3666	3723	
98	3779	3835	3892	3948	4005	4061	4118	4174	4230	4287	
99	4343	4400	4456	4512	4569	4625	4682	4738	4794	4851	
7700	4907	4964	5020	5076	5133	5189	5246	5302	5358	5415	
01	5471	5528	5584	5640	5697	5753	5810	5866	5922	5979	
♠ { 57 ♠ { 6 11 17 23 29 34 40 46 51 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
7702	8866035	6092	6148	6204	6261	6317	6373	6430	6486	6543	
03	6599	6655	6712	6768	6824	6881	6937	6994	7050	7106	
04	7163	7219	7275	7332	7388	7445	7501	7557	7614	7670	
05	7726	7783	7839	7896	7952	8008	8065	8121	8177	8234	
06	8290	8346	8403	8459	8515	8572	8628	8685	8741	8797	
07	8854	8910	8966	9023	9079	9135	9192	9248	9304	9361	
08	9417	9473	9530	9586	9642	9699	9755	9811	9868	9924	
09	9980	0037	0093	0149	0206	0262	0318	0375	0431	0487	
7710	8870544	0600	0656	0713	0769	0825	0882	0938	0994	1051	
11	1107	1163	1220	1276	1332	1389	1445	1501	1558	1614	
12	1670	1727	1783	1839	1895	1952	2008	2064	2121	2177	
13	2233	2290	2346	2402	2459	2515	2571	2627	2684	2740	
14	2796	2853	2909	2965	3022	3078	3134	3190	3247	3303	
15	3359	3416	3472	3528	3584	3641	3697	3753	3810	3866	
16	3922	3978	4035	4091	4147	4204	4260	4316	4372	4429	
17	4485	4541	4598	4654	4710	4766	4823	4879	4935	4991	
18	5048	5104	5160	5217	5273	5329	5385	5442	5498	5554	
19	5610	5667	5723	5779	5835	5892	5948	6004	6060	6117	
7720	6173	6229	6286	6342	6398	6454	6511	6567	6623	6679	
21	6736	6792	6848	6904	6961	7017	7073	7129	7185	7242	
22	7298	7354	7410	7467	7523	7579	7635	7692	7748	7804	
23	7880	7917	7973	8029	8085	8142	8198	8254	8310	8366	
24	8423	8479	8535	8591	8648	8704	8760	8816	8872	8929	
25	8985	9041	9097	9154	9210	9266	9322	9378	9435	9491	
26	9547	9603	9659	9716	9772	9828	9884	9941	9997	0053	
27	8880109	0165	0222	0278	0334	0390	0446	0503	0559	0615	
28	0671	0727	0784	0840	0896	0952	1008	1064	1121	1177	
29	1233	1289	1345	1402	1458	1514	1570	1626	1683	1739	
7730	1795	1851	1907	1963	2020	2076	2132	2188	2244	2301	
31	2357	2413	2469	2525	2581	2638	2694	2750	2806	2862	
32	2918	2975	3031	3087	3143	3199	3255	3312	3368	3424	
33	3480	3536	3592	3649	3705	3761	3817	3873	3929	3986	
34	4042	4098	4154	4210	4266	4322	4379	4435	4491	4547	
35	4603	4659	4715	4772	4828	4884	4940	4996	5052	5108	
36	5165	5221	5277	5333	5389	5445	5501	5558	5614	5670	
37	5726	5782	5838	5894	5950	6007	6063	6119	6175	6231	
38	6287	6343	6400	6456	6512	6568	6624	6680	6736	6792	
39	6848	6905	6961	7017	7073	7129	7185	7241	7297	7353	
7740	7410	7466	7522	7578	7634	7690	7746	7802	7858	7915	
41	7971	8027	8083	8139	8195	8251	8307	8363	8419	8476	
42	8532	8588	8644	8700	8756	8812	8868	8924	8980	9037	
43	9093	9149	9205	9261	9317	9373	9429	9485	9541	9597	
44	9653	9710	9766	9822	9878	9934	9990	0046	0102	0158	
45	8890214	0270	0326	0382	0439	0495	0551	0607	0663	0719	
46	0775	0831	0887	0943	0999	1055	1111	1167	1223	1279	
47	1336	1392	1448	1504	1560	1616	1672	1728	1784	1840	
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7748	8891896	1952	2008	2064	2120	2176	2232	2288	2345	2401	
49	2457	2513	2569	2625	2681	2737	2793	2849	2905	2961	
7750	3017	3073	3129	3185	3241	3297	3353	3409	3465	3521	
51	3577	3633	3689	3745	3801	3858	3914	3970	4026	4082	
52	4138	4194	4250	4306	4362	4418	4474	4530	4586	4642	
53	4698	4754	4810	4866	4922	4978	5034	5090	5146	5202	
54	5258	5314	5370	5426	5482	5538	5594	5650	5706	5762	
55	5818	5874	5930	5986	6042	6098	6154	6210	6266	6322	
56	6378	6434	6490	6546	6602	6658	6714	6770	6826	6882	
57	6938	6994	7050	7106	7162	7218	7274	7330	7386	7442	
58	7498	7554	7610	7666	7722	7778	7834	7890	7946	8002	
59	8058	8113	8169	8225	8281	8337	8393	8449	8505	8561	
7760	8617	8673	8729	8785	8841	8897	8953	9009	9065	9121	
61	9177	9233	9289	9345	9401	9457	9513	9569	9624	9680	
62	9736	9792	9848	9904	9960	0016	0072	0128	0184	0240	
63	8900296	0352	0408	0464	0520	0576	0632	0687	0743	0799	
64	0855	0911	0967	1023	1079	1135	1191	1247	1303	1359	
65	1415	1471	1526	1582	1638	1694	1750	1806	1862	1918	
66	1974	2030	2086	2142	2198	2253	2309	2365	2421	2477	
67	2533	2589	2645	2701	2757	2813	2869	2924	2980	3036	
68	3092	3148	3204	3260	3316	3372	3428	3484	3539	3595	
69	3651	3707	3763	3819	3875	3931	3987	4043	4098	4154	
7770	4210	4266	4322	4378	4434	4490	4546	4601	4657	4713	56
71	4769	4825	4881	4937	4993	5049	5104	5160	5216	5272	
72	5328	5384	5440	5496	5551	5607	5663	5719	5775	5831	
73	5887	5943	5998	6054	6110	6166	6222	6278	6334	6389	
74	6445	6501	6557	6613	6669	6725	6781	6836	6892	6948	
75	7004	7060	7116	7172	7227	7283	7339	7395	7451	7507	
76	7563	7618	7674	7730	7786	7842	7898	7953	8009	8065	
77	8121	8177	8233	8289	8344	8400	8456	8512	8568	8624	
78	8679	8735	8791	8847	8903	8959	9014	9070	9126	9182	
79	9238	9294	9349	9405	9461	9517	9573	9629	9684	9740	
7780	9796	9852	9908	9963	0019	0075	0131	0187	0243	0298	
81	8910354	0410	0466	0522	0577	0633	0689	0745	0801	0856	
82	0912	0968	1024	1080	1135	1191	1247	1303	1359	1415	
83	1470	1526	1582	1638	1694	1749	1805	1861	1917	1972	
84	2028	2084	2140	2196	2251	2307	2363	2419	2475	2530	
85	2586	2642	2698	2754	2809	2865	2921	2977	3032	3088	
86	3144	3200	3256	3311	3367	3423	3479	3534	3590	3646	
87	3702	3758	3813	3869	3925	3981	4036	4092	4148	4204	
88	4259	4315	4371	4427	4482	4538	4594	4650	4706	4761	
89	4817	4873	4929	4984	5040	5096	5152	5207	5263	5319	
7790	5375	5430	5486	5542	5598	5653	5709	5765	5821	5876	
91	5932	5988	6044	6099	6155	6211	6266	6322	6378	6434	
92	6489	6545	6601	6657	6712	6768	6824	6880	6935	6991	
93	7047	7102	7158	7214	7270	7325	7381	7437	7493	7548	
A { 56 B { 6 | 11 | 17 | 22 | 28 | 34 | 39 | 45 | 50 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
7794	8917604	7660	7715	7771	7827	7883	7938	7994	8050	8105	
95	8161	8217	8273	8328	8384	8440	8495	8551	8607	8663	
96	8718	8774	8830	8885	8941	8997	9053	9108	9164	9220	
97	9275	9331	9387	9442	9498	9554	9610	9665	9721	9777	
98	9832	9888	9944	9999	0055	0111	0166	0222	0278	0334	
99	8920389	0445	0501	0556	0612	0668	0723	0779	0835	0890	
7800	0946	1002	1057	1113	1169	1224	1280	1336	1391	1447	
01	1503	1558	1614	1670	1725	1781	1837	1892	1948	2004	
02	2059	2115	2171	2226	2282	2338	2393	2449	2505	2560	
03	2616	2672	2727	2783	2839	2894	2950	3006	3061	3117	
04	3173	3228	3284	3340	3395	3451	3506	3562	3618	3673	
05	3729	3785	3840	3896	3952	4007	4063	4119	4174	4230	
06	4285	4341	4397	4452	4508	4564	4619	4675	4731	4786	
07	4842	4897	4953	5009	5064	5120	5176	5231	5287	5342	
08	5398	5454	5509	5565	5621	5676	5732	5787	5843	5899	
09	5954	6010	6065	6121	6177	6232	6288	6344	6399	6455	
7810	6510	6566	6622	6677	6733	6788	6844	6900	6955	7011	
11	7066	7122	7178	7233	7289	7344	7400	7456	7511	7567	
12	7622	7678	7734	7789	7845	7900	7956	8011	8067	8123	
13	8178	8234	8289	8345	8401	8456	8512	8567	8623	8678	
14	8734	8790	8845	8901	8956	9012	9068	9123	9179	9234	
15	9290	9345	9401	9457	9512	9568	9623	9679	9734	9790	
16	9846	9901	9957	0012	0068	0123	0179	0234	0290	0346	
17	8930401	0457	0512	0568	0623	0679	0734	0790	0846	0901	
18	0957	1012	1068	1123	1179	1234	1290	1345	1401	1457	
19	1512	1568	1623	1679	1734	1790	1845	1901	1956	2012	
7820	2068	2123	2179	2234	2290	2345	2401	2456	2512	2567	
21	2623	2678	2734	2789	2845	2900	2956	3012	3067	3123	
22	3178	3234	3289	3345	3400	3456	3511	3567	3622	3678	
23	3733	3789	3844	3900	3955	4011	4066	4122	4177	4233	
24	4288	4344	4399	4455	4510	4566	4621	4677	4732	4788	
25	4843	4899	4954	5010	5065	5121	5176	5232	5288	5343	
26	5398	5454	5509	5565	5620	5676	5731	5787	5842	5898	
27	5953	6009	6064	6120	6175	6231	6286	6342	6397	6453	
28	6508	6564	6619	6675	6730	6786	6841	6897	6952	7007	
29	7063	7118	7174	7229	7285	7340	7396	7451	7507	7562	
7830	7618	7673	7729	7784	7839	7895	7950	8006	8061	8117	
31	8172	8228	8283	8339	8394	8450	8505	8560	8616	8671	
32	8727	8782	8838	8893	8949	9004	9059	9115	9170	9226	
33	9281	9337	9392	9448	9503	9558	9614	9669	9725	9780	
34	9836	9891	9947	0002	0057	0113	0168	0224	0279	0335	
35	8940890	0445	0501	0556	0612	0667	0723	0778	0833	0889	
36	0944	1000	1055	1111	1166	1221	1277	1332	1388	1443	
37	1498	1554	1609	1665	1720	1776	1831	1886	1942	1997	
38	2053	2108	2163	2219	2274	2330	2385	2440	2496	2551	
39	2607	2662	2717	2773	2828	2884	2939	2994	3050	3105	
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7840	8943161	3216	3271	3327	3382	3438	3493	3548	3604	3659	
41	3715	3770	3825	3881	3936	3991	4047	4102	4158	4213	
42	4268	4324	4379	4435	4490	4545	4601	4656	4711	4767	
43	4822	4878	4933	4988	5044	5099	5154	5210	5265	5320	
44	5376	5431	5487	5542	5597	5653	5708	5763	5819	5874	
45	5929	5985	6040	6096	6151	6206	6262	6317	6372	6428	
46	6483	6538	6594	6649	6704	6760	6815	6870	6926	6981	
47	7037	7092	7147	7203	7258	7313	7369	7424	7479	7535	
48	7590	7645	7701	7756	7811	7867	7922	7977	8033	8088	
49	8143	8199	8254	8309	8365	8420	8475	8531	8586	8641	
7850	8697	8752	8807	8863	8918	8973	9028	9084	9139	9194	
51	9250	9305	9360	9416	9471	9526	9582	9637	9692	9748	
52	9803	9858	9914	9969	0024	0079	0135	0190	0245	0301	
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54	0909	0964	1020	1075	1130	1185	1241	1296	1351	1407	
55	1462	1517	1572	1628	1683	1738	1794	1849	1904	1959	
56	2015	2070	2125	2181	2236	2291	2346	2402	2457	2512	
57	2568	2623	2678	2733	2789	2844	2899	2954	3010	3065	
58	3120	3176	3231	3286	3341	3397	3452	3507	3562	3618	
59	3673	3728	3783	3839	3894	3949	4004	4060	4115	4170	
7860	4225	4281	4336	4391	4446	4502	4557	4612	4667	4723	
61	4778	4833	4888	4944	4999	5054	5109	5165	5220	5275	
62	5330	5386	5441	5496	5551	5607	5662	5717	5772	5828	
63	5883	5938	5993	6048	6104	6159	6214	6269	6325	6380	
64	6435	6490	6545	6601	6656	6711	6766	6822	6877	6932	
65	6987	7042	7098	7153	7208	7263	7319	7374	7429	7484	
66	7539	7595	7650	7705	7760	7815	7871	7926	7981	8036	
67	8092	8147	8202	8257	8312	8368	8423	8478	8533	8588	
68	8644	8699	8754	8809	8864	8919	8975	9030	9085	9140	
69	9195	9251	9306	9361	9416	9471	9527	9582	9637	9692	
7870	9747	9803	9858	9913	9968	0023	0078	0134	0189	0244	
71	8960299	0354	0409	0465	0520	0575	0630	0685	0741	0796	
72	0851	0906	0961	1016	1072	1127	1182	1237	1292	1347	
73	1403	1458	1513	1568	1623	1678	1733	1789	1844	1899	
74	1954	2009	2064	2120	2175	2230	2285	2340	2395	2450	
75	2506	2561	2616	2671	2726	2781	2837	2892	2947	3002	
76	3057	3112	3167	3223	3278	3333	3388	3443	3498	3553	
77	3608	3664	3719	3774	3829	3884	3939	3994	4050	4105	
78	4160	4215	4270	4325	4380	4435	4491	4546	4601	4656	
79	4711	4766	4821	4876	4931	4987	5042	5097	5152	5207	
7880	5263	5317	5372	5428	5483	5538	5593	5648	5703	5758	
81	5813	5868	5923	5979	6034	6089	6144	6199	6254	6309	
82	6364	6419	6475	6530	6585	6640	6695	6750	6805	6860	
83	6915	6970	7025	7081	7136	7191	7246	7301	7356	7411	
84	7466	7521	7576	7631	7686	7742	7797	7852	7907	7963	
85	8017	8072	8127	8182	8237	8292	8347	8403	8458	8513	
55 6 11 17 22 28 33 39 44 50											

No.	0	1	2	3	4	5	6	7	8	9	D.
7886	8968568	8623	8678	8783	8788	8843	8898	8953	9008	9063	
87	9118	9173	9228	9283	9338	9394	9449	9504	9559	9614	
88	9669	9724	9779	9834	9889	9944	9999	0054	0109	0163	
89	8970220	0275	0330	0385	0440	0495	0550	0605	0660	0715	
7890	0770	0825	0880	0935	0990	1045	1100	1155	1210	1265	
91	1320	1375	1431	1486	1541	1596	1651	1706	1761	1816	
92	1871	1926	1981	2036	2091	2146	2201	2256	2311	2366	
93	2421	2476	2531	2586	2641	2696	2751	2806	2861	2916	
94	2971	3026	3081	3136	3191	3246	3301	3356	3411	3466	
95	3521	3576	3631	3686	3741	3796	3851	3906	3961	4016	
96	4071	4126	4181	4236	4291	4346	4401	4456	4511	4566	
97	4621	4676	4731	4786	4841	4896	4951	5006	5061	5116	
98	5171	5226	5281	5336	5391	5446	5501	5556	5611	5666	
99	5721	5776	5831	5886	5941	5996	6051	6106	6161	6216	
7900	6271	6326	6381	6436	6491	6546	6601	6656	6711	6766	
01	6821	6876	6931	6986	7040	7095	7150	7205	7260	7315	
02	7370	7425	7480	7535	7590	7645	7700	7755	7810	7865	
03	7920	7975	8030	8085	8140	8195	8250	8304	8359	8414	
04	8469	8524	8579	8634	8689	8744	8799	8854	8909	8964	
05	9019	9074	9129	9184	9238	9293	9348	9403	9458	9513	
06	9568	9623	9678	9733	9788	9843	9898	9953	0008	0062	
07	8980117	0172	0227	0282	0337	0392	0447	0502	0557	0612	
08	0667	0722	0776	0831	0886	0941	0996	1051	1106	1161	
09	1216	1271	1326	1380	1435	1490	1545	1600	1655	1710	
7910	1765	1820	1875	1930	1984	2039	2094	2149	2204	2259	
11	2314	2369	2424	2479	2533	2588	2643	2698	2753	2808	
12	2863	2918	2973	3027	3082	3137	3192	3247	3302	3357	
13	3412	3467	3521	3576	3631	3686	3741	3796	3851	3906	
14	3960	4015	4070	4125	4180	4235	4290	4345	4399	4454	
15	4509	4564	4619	4674	4729	4784	4838	4893	4948	5003	
16	5058	5113	5168	5222	5277	5332	5387	5442	5497	5552	
17	5606	5661	5716	5771	5826	5881	5936	5990	6045	6100	
18	6155	6210	6265	6320	6374	6429	6484	6539	6594	6649	
19	6703	6758	6813	6868	6923	6978	7032	7087	7142	7197	
7920	7252	7307	7361	7416	7471	7526	7581	7636	7690	7745	
21	7800	7855	7910	7965	8019	8074	8129	8184	8239	8294	
22	8348	8403	8458	8513	8568	8622	8677	8732	8787	8842	
23	8897	8951	9006	9061	9116	9171	9225	9280	9335	9390	
24	9445	9499	9554	9609	9664	9719	9774	9828	9883	9938	
25	9993	0048	0102	0157	0212	0267	0321	0376	0431	0486	
26	8990541	0595	0650	0705	0760	0815	0869	0924	0979	1034	
27	1089	1143	1198	1253	1308	1363	1417	1472	1527	1582	
28	1636	1691	1746	1801	1856	1910	1965	2020	2075	2129	
29	2184	2239	2294	2348	2403	2458	2513	2568	2622	2677	
7930	2733	2787	2841	2896	2951	3006	3060	3115	3170	3225	
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7932	8992827	8882	8937	8991	4046	4101	4156	4219	4265	4320	
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34	4929	4977	5081	5086	5141	5196	5250	5305	5360	5415	
35	5469	5524	5579	5634	5688	5743	5798	5853	5907	5962	
36	6017	6071	6126	6181	6235	6290	6345	6400	6454	6509	
37	6564	6619	6673	6728	6783	6837	6892	6947	7002	7056	
38	7111	7166	7220	7275	7330	7384	7439	7494	7549	7603	
39	7658	7713	7767	7822	7877	7932	7986	8041	8096	8150	
7940	8205	8260	8314	8369	8424	8479	8533	8588	8643	8697	
41	8752	8807	8861	8916	8971	9025	9080	9135	9189	9244	
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44	9000392	0447	0502	0556	0611	0666	0720	0775	0830	0884	
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47	2032	2087	2141	2196	2251	2305	2360	2415	2469	2524	
48	2579	2633	2688	2743	2797	2852	2906	2961	3016	3070	
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51	4218	4273	4327	4381	4436	4491	4545	4600	4654	4709	
52	4764	4818	4873	4928	4983	5037	5091	5146	5201	5255	
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54	5856	5910	5965	6020	6074	6129	6183	6238	6293	6347	
55	6402	6456	6511	6566	6620	6675	6729	6784	6839	6893	
56	6948	7002	7057	7112	7166	7221	7275	7330	7384	7439	
57	7494	7548	7603	7657	7712	7766	7821	7875	7930	7985	
58	8039	8094	8148	8203	8258	8312	8367	8421	8476	8530	
59	8585	8640	8694	8749	8803	8858	8912	8967	9022	9076	
7960	9131	9185	9240	9294	9349	9403	9458	9513	9567	9622	
61	9676	9731	9785	9840	9894	9949	0004	0058	0113	0167	
62	9010222	0276	0331	0385	0440	0494	0549	0604	0658	0712	
63	0767	0822	0876	0931	0985	1040	1094	1149	1203	1258	
64	1313	1367	1422	1476	1531	1585	1640	1694	1749	1803	
65	1858	1912	1967	2021	2076	2130	2185	2239	2294	2349	
66	2403	2458	2512	2567	2621	2676	2730	2785	2839	2894	
67	2948	3003	3057	3112	3166	3221	3275	3330	3384	3439	
68	3493	3548	3603	3657	3711	3766	3820	3875	3929	3984	
69	4038	4093	4147	4202	4256	4311	4365	4420	4474	4529	
7970	4583	4638	4692	4747	4801	4856	4910	4965	5019	5074	
71	5128	5183	5237	5292	5346	5401	5455	5509	5564	5618	
72	5673	5727	5782	5836	5891	5945	6000	6054	6109	6163	
73	6218	6273	6327	6381	6436	6490	6544	6599	6653	6708	
74	6762	6817	6871	6926	6980	7035	7089	7144	7198	7253	
75	7307	7361	7416	7470	7525	7579	7634	7688	7743	7797	
76	7851	7906	7960	8015	8069	8124	8178	8233	8287	8341	
77	8396	8450	8505	8559	8614	8668	8723	8777	8831	8886	
8	85	6	11	17	22	28	33	39	44	50	

LOGARITHMS OF NUMBERS.

202

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7978	9018940	8995	9048	9104	9158	9212	9267	9321	9376	9430	
79	9485	9539	9594	9648	9702	9757	9811	9866	9920	9974	
7980	9020029	0083	0138	0192	0247	0301	0355	0410	0464	0519	
81	0573	0628	0682	0736	0791	0845	0900	0954	1008	1063	
82	1117	1172	1226	1280	1335	1389	1444	1498	1552	1607	
83	1661	1716	1770	1824	1879	1933	1988	2042	2096	2151	
84	2205	2260	2314	2368	2423	2477	2532	2586	2640	2695	
85	2749	2804	2858	2912	2967	3021	3076	3130	3184	3239	
86	3293	3347	3402	3456	3511	3565	3619	3674	3728	3783	
87	3837	3891	3946	4000	4054	4109	4163	4217	4272	4326	
88	4381	4435	4489	4544	4598	4652	4707	4761	4815	4870	
89	4924	4979	5033	5087	5142	5196	5250	5305	5359	5413	
7990	5468	5522	5577	5631	5685	5740	5794	5848	5903	5957	
91	6011	6066	6120	6174	6229	6283	6337	6392	6446	6500	
92	6555	6609	6663	6718	6772	6826	6881	6935	6989	7044	
93	7098	7152	7207	7261	7315	7370	7424	7478	7533	7587	
94	7641	7696	7750	7804	7859	7913	7967	8022	8076	8130	
95	8185	8239	8293	8348	8402	8456	8511	8565	8619	8674	
96	8728	8782	8836	8891	8945	8999	9054	9108	9162	9217	
97	9271	9325	9380	9434	9488	9542	9597	9651	9705	9760	
98	9814	9868	9923	9977	0031	0085	0140	0194	0248	0303	
99	9030367	0411	0465	0520	0574	0628	0683	0737	0791	0846	
8000	0900	0954	1008	1063	1117	1171	1226	1280	1334	1388	
01	1443	1497	1551	1606	1660	1714	1768	1823	1877	1931	
02	1985	2040	2094	2148	2203	2257	2311	2365	2420	2474	
03	2528	2582	2637	2691	2745	2799	2854	2908	2962	3017	
04	3071	3125	3179	3234	3288	3342	3396	3451	3505	3559	
05	3613	3668	3722	3776	3830	3885	3939	3993	4047	4102	
06	4156	4210	4264	4319	4373	4427	4481	4536	4590	4644	
07	4698	4753	4807	4861	4915	4969	5024	5078	5132	5186	
08	5241	5295	5349	5403	5458	5512	5566	5620	5674	5729	
09	5783	5837	5891	5946	6000	6054	6108	6163	6217	6271	
8010	6325	6379	6434	6488	6542	6596	6650	6705	6759	6813	
11	6867	6922	6976	7030	7084	7138	7193	7247	7301	7355	
12	7409	7464	7518	7572	7626	7680	7735	7789	7843	7897	
13	7951	8006	8060	8114	8168	8223	8277	8331	8385	8439	
14	8493	8548	8602	8656	8710	8764	8819	8873	8927	8981	
15	9035	9089	9144	9198	9252	9306					

No.	0	1	2	3	4	5	6	7	8	9	D.
8024	9043909	3963	4017	4072	4126	4180	4234	4288	4342	4396	
25	4450	4505	4559	4613	4667	4721	4775	4829	4883	4937	
26	4992	5046	5100	5154	5208	5262	5316	5370	5424	5479	
27	5533	5587	5641	5695	5749	5803	5857	5911	5965	6020	
28	6074	6128	6182	6236	6290	6344	6398	6452	6506	6560	
29	6615	6669	6723	6777	6831	6885	6939	6993	7047	7101	
8030	7155	7210	7264	7318	7372	7426	7480	7534	7588	7642	
31	7696	7750	7804	7858	7913	7967	8021	8075	8129	8183	
32	8237	8291	8345	8399	8453	8507	8561	8615	8670	8724	
33	8778	8832	8886	8940	8994	9048	9102	9156	9210	9264	
34	9318	9372	9426	9480	9534	9588	9642	9696	9751	9805	
35	9859	9913	9967	0021	0075	0129	0183	0237	0291	0345	
36	9050399	0433	0507	0561	0615	0669	0724	0778	0832	0886	
37	0940	0994	1048	1102	1156	1210	1264	1318	1372	1426	
38	1480	1534	1588	1642	1696	1750	1804	1858	1912	1966	
39	2020	2074	2128	2182	2236	2290	2344	2398	2452	2506	
8040	2560	2615	2669	2723	2777	2831	2885	2939	2993	3047	
41	3101	3155	3209	3263	3317	3371	3425	3479	3533	3587	
42	3641	3695	3749	3803	3857	3911	3965	4019	4073	4127	
43	4181	4235	4289	4343	4397	4451	4505	4559	4613	4667	
44	4721	4775	4829	4883	4937	4991	5045	5099	5153	5207	
45	5260	5314	5368	5422	5476	5530	5584	5638	5692	5746	
46	5800	5854	5908	5962	6016	6070	6124	6178	6232	6286	
47	6340	6394	6448	6502	6556	6610	6664	6718	6772	6826	
48	6880	6934	6988	7042	7096	7149	7203	7257	7311	7365	
49	7419	7473	7527	7581	7635	7689	7743	7797	7851	7905	
8050	7959	8013	8067	8121	8175	8229	8282	8336	8390	8444	
51	8498	8552	8606	8660	8714	8768	8822	8876	8930	8984	
52	9038	9092	9146	9199	9253	9307	9361	9415	9469	9523	
53	9577	9631	9685	9739	9793	9847	9901	9954	0008	0062	
54	9060116	0170	0224	0278	0332	0386	0440	0494	0548	0602	
55	0655	0709	0763	0817	0871	0925	0979	1033	1087	1141	
56	1195	1248	1302	1356	1410	1464	1518	1572	1626	1680	
57	1734	1788	1841	1895	1949	2003	2057	2111	2165	2219	
58	2273	2327	2380	2434	2488	2542	2596	2650	2704	2758	
59	2812	2865	2919	2973	3027	3081	3135	3189	3243	3297	
8060	3350	3404	3458	3512	3566	3620	3674	3728	3781	3835	
61	3889	3943	3997	4051	4105	4159	4212	4266	4320	4374	
62	4428	4482	4536	4590	4643	4697	4751	4805	4859	4913	
63	4967	5020	5074	5128	5182	5236	5290	5344	5397	5451	
64	5505	5559	5613	5667	5721	5774	5828	5882	5936	5990	
65	6044	6098	6151	6205	6259	6313	6367	6421	6474	6528	
66	6582	6636	6690	6744	6798	6851	6905	6959	7013	7067	
67	7174	7228	7282	7336	7390	7444	7497	7551	7605		
68	7713	7767	7820	7874	7928	7982	8036	8090	8143		
69	8251	8305	8359	8412	8466	8520	8574	8628	8682		
54											
6 { 54 6 { 5 | 11 | 16 | 22 | 27 | 32 | 38 | 43 | 49 |											

No.	0	1	2	3	4	5	6	7	8.	9	D.
8070	9068735	8789	8843	8897	8951	9004	9058	9112	9166	9220	
71	9273	9327	9381	9435	9489	9543	9596	9650	9704	9758	
72	9812	9865	9919	9973	0027	0081	0134	0188	0242	0296	
73	9070350	0403	0457	0511	0565	0618	0672	0726	0780	0834	
74	0887	0941	0995	1049	1103	1156	1210	1264	1318	1372	
75	1425	1479	1533	1587	1640	1694	1748	1802	1856	1909	
76	1963	2017	2071	2124	2178	2232	2286	2340	2393	2447	
77	2501	2555	2608	2662	2716	2770	2823	2877	2931	2985	
78	3038	3092	3146	3200	3254	3307	3361	3415	3469	3523	
79	3576	3630	3684	3737	3791	3845	3899	3952	4006	4060	
8080	4114	4167	4221	4275	4329	4382	4436	4490	4544	4597	
81	4651	4705	4759	4812	4866	4920	4974	5027	5081	5135	
82	5188	5242	5296	5350	5403	5457	5511	5565	5618	5672	
83	5726	5780	5833	5887	5941	5994	6048	6102	6156	6209	
84	6263	6317	6370	6424	6478	6532	6585	6639	6693	6747	
85	6800	6854	6908	6961	7015	7069	7123	7176	7230	7284	
86	7337	7391	7445	7498	7552	7606	7660	7713	7767	7821	
87	7874	7928	7982	8036	8089	8143	8197	8250	8304	8358	
88	8411	8465	8519	8573	8626	8680	8734	8787	8841	8895	
89	8948	9002	9056	9109	9163	9217	9270	9324	9378	9432	
8090	9485	9539	9593	9646	9700	9754	9807	9861	9915	9968	
91	9080022	0076	0129	0183	0237	0290	0344	0398	0451	0505	
92	0559	0612	0666	0720	0773	0827	0881	0934	0988	1042	
93	1095	1149	1203	1256	1310	1364	1417	1471	1525	1578	
94	1632	1686	1739	1793	1847	1900	1954	2008	2061	2115	
95	2169	2222	2276	2329	2383	2437	2490	2544	2598	2651	
96	2705	2759	2812	2866	2920	2973	3027	3080	3134	3188	
97	3241	3295	3349	3402	3456	3510	3563	3617	3670	3724	
98	3778	3831	3885	3939	3992	4046	4099	4153	4207	4260	
99	4314	4368	4421	4475	4528	4582	4636	4689	4743	4797	
8100	4850	4904	4957	5011	5065	5118	5172	5225	5279	5333	
01	5386	5440	5494	5547	5601	5654	5708	5762	5815	5869	
02	5922	5976	6030	6083	6137	6190	6244	6298	6351	6405	
03	6458	6512	6566	6619	6673	6726	6780	6834	6887	6941	
04	6994	7048	7102	7155	7209	7262	7316	7369	7423	7477	
05	7530	7584	7637	7691	7745	7798	7852	7905	7959	8012	
06	8066	8120	8173	8227	8280	8334	8387	8441	8495	8548	
07	8602	8655	8709	8762	8816	8870	8923	8977	9030	9084	
08	9137	9191	9245	9298	9352	9405	9459	9512	9566	9619	
09	9673	9727	9780	9834	9887	9941	9994	0048	0101	0155	
8110	9090209	0262	0316	0369	0423	0476	0530	0583	0637	0690	
11	0744	0798	0851	0905	0958	1012	1065	1119	1172	1226	
12	1279	1333	1386	1440	1494	1547	1601	1654	1708	1761	
13	1815	1868	1922	1975	2029	2082	2136	2189	2243	2297	
14	2350	2404	2457	2511	2564	2618	2671	2725	2778	2832	
15	2885	2939	2992	3046	3099	3153	3206	3260	3313	3367	
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No.	0	1	2	3	4	5	6	7	8	9	D.
8116	9093420	3474	3527	3581	3634	3688	3741	3795	3848	3902	
17	3953	4009	4063	4116	4169	4223	4276	4330	4383	4437	
18	4490	4544	4597	4651	4704	4758	4811	4865	4918	4972	
19	5025	5079	5132	5186	5239	5293	5346	5400	5453	5507	
8120	5560	5614	5667	5721	5774	5828	5881	5935	5988	6042	
21	6095	6149	6202	6256	6309	6362	6416	6469	6523	6576	
22	6630	6683	6737	6790	6844	6897	6951	7004	7058	7111	
23	7165	7218	7271	7325	7378	7432	7485	7539	7592	7646	
24	7699	7753	7806	7860	7913	7966	8020	8073	8127	8180	
25	8234	8287	8341	8394	8447	8501	8554	8608	8661	8715	
26	8768	8822	8875	8929	8982	9035	9089	9142	9196	9249	
27	9308	9356	9409	9463	9516	9570	9623	9677	9730	9784	
28	9837	9890	9944	9997	0051	0104	0158	0211	0264	0318	
29	9100371	0425	0478	0532	0585	0638	0692	0745	0799	0852	
8130	0905	0959	1012	1066	1119	1173	1226	1279	1333	1386	
31	1440	1493	1546	1600	1653	1707	1760	1813	1867	1920	
32	1974	2027	2081	2134	2187	2241	2294	2348	2401	2454	
33	2508	2561	2615	2668	2721	2775	2828	2882	2935	2988	
34	3042	3095	3148	3202	3255	3309	3362	3415	3469	3522	
35	3576	3629	3682	3736	3789	3842	3896	3949	4003	4056	
36	4109	4163	4216	4270	4323	4376	4430	4483	4536	4590	
37	4643	4697	4750	4803	4857	4910	4963	5017	5070	5123	
38	5177	5230	5284	5337	5390	5444	5497	5550	5604	5657	
39	5710	5764	5817	5871	5924	5977	6031	6084	6137	6191	53
8140	6244	6297	6351	6404	6457	6511	6564	6618	6671	6724	
41	6778	6831	6884	6938	6991	7044	7098	7151	7204	7258	
42	7311	7364	7418	7471	7524	7578	7631	7684	7738	7791	
43	7844	7898	7951	8004	8058	8111	8164	8218	8271	8324	
44	8378	8431	8484	8538	8591	8644	8698	8751	8804	8858	
45	8911	8964	9018	9071	9124	9177	9231	9284	9337	9391	
46	9444	9497	9551	9604	9657	9711	9764	9817	9871	9924	
47	9977	0030	0084	0137	0190	0244	0297	0350	0404	0457	
48	9110510	0564	0617	0670	0723	0777	0830	0883	0937	0990	
49	1043	1096	1150	1203	1256	1310	1363	1416	1470	1523	
8150	1576	1629	1683	1736	1789	1843	1896	1949	2002	2056	
51	2109	2162	2215	2269	2322	2375	2429	2482	2535	2588	
52	2642	2695	2748	2802	2855	2908	2961	3015	3068	3121	
53	3174	3228	3281	3334	3387	3441	3494	3547	3601	3654	
54	3707	3760	3814	3867	3920	3973	4027	4080	4133	4186	
55	4240	4293	4346	4399	4453	4506	4559	4612	4666	4719	
56	4772	4825	4879	4932	4985	5038	5092	5145	5198	5251	
57	5305	5358	5411	5464	5518	5571	5624	5677	5731	5784	
58	5837	5890	5943	5997	6050	6103	6156	6210	6263	6316	
59	6369	6423	6476	6529	6582	6635	6689	6742	6795	6848	
8160	6902	6955	7008	7061	7114	7168	7221	7274	7327	7381	
61	7434	7487	7540	7593	7647	7700	7753	7806	7859	7913	
53 { 5 { 11 { 16 { 21 { 27 { 32 { 37 { 42 { 48 {											

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8162	9117966	8019	8079	8126	8179	8228	8285	8338	8392	8445	
63	8498	8553	8604	8658	8711	8764	8817	8870	8924	8977	
64	9030	9083	9138	9190	9242	9296	9349	9402	9456	9509	
65	9562	9615	9668	9721	9775	9828	9881	9934	9987	0041	
66	9120094	0147	0200	0253	0306	0360	0413	0466	0519	0572	
67	0626	0679	0732	0785	0838	0891	0945	0998	1051	1104	
68	1157	1210	1264	1317	1370	1423	1476	1529	1583	1636	
69	1689	1742	1795	1848	1902	1955	2008	2061	2114	2167	
8170	2221	2274	2327	2380	2433	2486	2539	2593	2646	2699	
71	2752	2805	2858	2912	2965	3018	3071	3124	3177	3230	
72	3284	3337	3390	3443	3496	3549	3602	3656	3709	3762	
73	3815	3868	3921	3974	4028	4081	4134	4187	4240	4293	
74	4346	4399	4453	4506	4559	4612	4665	4718	4771	4824	
75	4878	4931	4984	5037	5090	5143	5196	5249	5303	5356	
76	5409	5462	5515	5568	5621	5674	5728	5781	5834	5887	
77	5940	5993	6046	6099	6152	6206	6259	6312	6365	6418	
78	6471	6524	6577	6630	6683	6737	6790	6843	6896	6949	
79	7002	7055	7108	7161	7214	7268	7321	7374	7427	7480	
8180	7533	7586	7639	7692	7745	7798	7852	7905	7958	8011	
81	8064	8117	8170	8223	8276	8329	8382	8436	8489	8542	
82	8595	8648	8701	8754	8807	8860	8913	8966	9019	9072	
83	9126	9179	9232	9285	9338	9391	9444	9497	9550	9603	
84	9656	9709	9762	9815	9868	9922	9975	0028	0081	0134	
85	9130187	0240	0293	0346	0399	0452	0505	0558	0611	0664	
86	0717	0770	0824	0877	0930	0983	1036	1089	1142	1195	
87	1248	1301	1354	1407	1460	1513	1566	1619	1672	1725	
88	1778	1831	1884	1937	1990	2044	2097	2150	2203	2256	
89	2309	2362	2415	2468	2521	2574	2627	2680	2733	2786	
8190	2839	2892	2945	2998	3051	3104	3157	3210	3263	3316	
91	3369	3422	3475	3528	3581	3634	3687	3740	3793	3846	
92	3899	3952	4005	4058	4111	4165	4218	4271	4324	4377	
93	4430	4483	4536	4589	4642	4695	4748	4801	4854	4907	
94	4960	5013	5066	5119	5172	5225	5278	5331	5384	5437	
95	5490	5543	5596	5649	5702	5755	5808	5861	5914	5967	
96	6019	6072	6125	6178	6231	6284	6337	6390	6443	6496	
97	6549	6602	6655	6708	6761	6814	6867	6920	6973	7026	
98	7079	7132	7185	7238	7291	7344	7397	7450	7503	7556	
99	7609	7662	7715	7768	7821	7874	7927	7980	8033	8086	
8200	8139	8191	8244	8297	8350	8403	8456	8509	8562	8615	
01	8668	8721	8774	8827	8880	8933	8986	9039	9092	9145	
02	9198	9251	9304	9356	9409	9462	9515	9568	9621	9674	
03	9727	9780	9833	9886	9939	9992	0045	0098	0151	0204	
04	9140257	0309	0362	0415	0468	0521	0574	0627	0680	0733	
05	0786	0839	0892	0945	0998	1050	1103	1156	1209	1262	
06	1315	1368	1421	1474	1527	1580	1633	1686	1739	1791	
07	1844	1897	1950	2003	2056	2109	2162	2215	2268	2321	
Δ { 53 n { 5 11 16 21 27 32 37 42 48 }											

No.	0	1	2	3	4	5	6	7	8	9	D.
8208	9142373	2426	2479	2532	2585	2638	2691	2744	2797	2850	
09	2903	2955	3008	3061	3114	3167	3220	3273	3326	3379	
8210	3432	3484	3537	3590	3643	3696	3749	3802	3855	3908	
11	3961	4013	4066	4119	4172	4225	4278	4331	4384	4437	
12	4489	4542	4595	4648	4701	4754	4807	4860	4912	4965	
13	5018	5071	5124	5177	5230	5283	5335	5388	5441	5494	
14	5547	5600	5653	5706	5758	5811	5864	5917	5970	6023	
15	6076	6129	6181	6234	6287	6340	6393	6446	6499	6551	
16	6604	6657	6710	6763	6816	6869	6921	6974	7027	7080	
17	7133	7186	7239	7291	7344	7397	7450	7503	7556	7609	
18	7661	7714	7767	7820	7873	7926	7978	8031	8084	8137	
19	8190	8243	8295	8348	8401	54	8507	8560	8613	8665	
8220	8718	8771	8824	8877	8930	9482	9075	9088	9141	9194	
21	9246	9299	9352	9405	9458	9511	9563	9616	9669	9722	
22	9775	9828	9880	9933	9986	0039	0092	0144	0197	0250	
23	9150303	0356	0409	0461	0514	0567	0620	0673	0725	0778	
24	0831	0884	0937	0989	1042	1095	1148	1201	1253	1306	
25	1359	1412	1465	1517	1570	1623	1676	1729	1781	1834	
26	1887	1940	1993	2045	2098	2151	2204	2257	2309	2362	
27	2415	2468	2521	2573	2626	2679	2732	2784	2837	2890	
28	2943	2996	3048	3101	3154	3207	3260	3312	3365	3418	
29	3471	3523	3576	3629	3682	3734	3787	3840	3893	3946	
8230	3998	4051	4104	4157	4209	4262	4315	4368	4420	4473	53
31	4526	4579	4632	4684	4737	4790	4843	4895	4948	5001	
32	5054	5106	5159	5212	5265	5317	5370	5423	5476	5528	
33	5581	5634	5687	5739	5792	5845	5898	5950	6003	6056	
34	6109	6161	6214	6267	6320	6372	6425	6478	6531	6583	
35	6636	6689	6742	6794	6847	6900	6952	7005	7058	7111	
36	7163	7216	7269	7322	7374	7427	7480	7532	7585	7638	
37	7691	7743	7796	7849	7902	7954	8007	8060	8112	8165	
38	8218	8271	8323	8376	8429	8481	8534	8587	8640	8692	
39	8745	8798	8850	8903	8956	9009	9061	9114	9167	9219	
8240	9272	9325	9378	9430	9483	9536	9588	9641	9694	9746	
41	9799	9852	9905	9957	0010	0063	0115	0168	0221	0273	
42	9160326	0379	0431	0484	0537	0590	0642	0695	0748	0800	
43	0853	0906	0958	1011	1064	1116	1169	1222	1274	1327	
44	1380	1433	1485	1538	1591	1643	1696	1749	1801	1854	
45	1907	1959	2012	2065	2117	2170	2223	2275	2328	2381	
46	2433	2486	2539	2591	2644	2697	2749	2802	2855	2907	
47	2960	3013	3065	3118	3171	3223	3276	3329	3381	3434	
48	3487	3539	3592	3644	3697	3750	3802	3855	3908	3960	
49	4013	4066	4118	4171	4224	4276	4329	4382	4434	4487	
8250	4539	4592	4645	4697	4750	4803	4855	4908	4961	5013	
51	5066	5119	5171	5224	5276	5329	5382	5434	5487	5540	
52	5592	5645	5697	5750	5803	5855	5908	5961	6013	6066	
53	6118	6171	6224	6276	6329	6382	6434	6487	6539	6592	
53 { 5 { 11 { 16 { 21 { 27 { 32 { 37 { 42 { 48 {											

No.	0	1	2	3	4	5	6	7	8	9	D.
8254	9186645	6697	6750	6802	6855	6908	6960	7013	7066	7118	
55	7171	7223	7276	7329	7381	7434	7486	7539	7592	7644	
56	7697	7749	7802	7855	7907	7960	8012	8065	8118	8170	
57	8228	8275	8328	8381	8433	8486	8538	8591	8644	8696	
58	8749	8801	8854	8907	8959	9012	9064	9117	9169	9222	
59	9275	9327	9380	9432	9485	9538	9590	9643	9695	9748	
8260	9800	9853	9906	9958	0011	0063	0116	0169	0221	0274	
61	9170326	0379	0431	0484	0537	0589	0642	0694	0747	0799	
62	0852	0904	0957	1010	1062	1115	1167	1220	1272	1325	
63	1378	1430	1483	1535	1588	1640	1693	1745	1798	1851	
64	1903	1956	2008	2061	2113	2166	2218	2271	2323	2376	
65	2429	2481	2534	2586	2639	2691	2744	2796	2849	2901	
66	2954	3007	3059	3112	3164	3217	3269	3322	3374	3427	
67	3479	3532	3584	3637	3690	3742	3795	3847	3900	3952	
68	4005	4057	4110	4162	4215	4267	4320	4372	4425	4477	
69	4530	4582	4635	4687	4740	4793	4845	4898	4950	5003	
8270	5055	5108	5160	5213	5265	5318	5370	5423	5475	5528	
71	5580	5633	5685	5738	5790	5843	5895	5948	6000	6053	
72	6105	6158	6210	6263	6315	6368	6420	6473	6525	6578	
73	6630	6683	6735	6788	6840	6893	6945	6998	7050	7103	
74	7155	7208	7260	7313	7365	7418	7470	7523	7575	7628	
75	7680	7733	7785	7837	7890	7942	7995	8047	8100	8152	
76	8205	8257	8310	8362	8415	8467	8520	8572	8625	8677	
77	8730	8782	8834	8887	8939	8992	9044	9097	9149	9202	
78	9254	9307	9359	9412	9464	9517	9569	9621	9674	9726	
79	9779	9831	9884	9936	9989	0041	0094	0146	0198	0251	
8280	9180303	0356	0408	0461	0513	0566	0618	0671	0723	0775	
81	0828	0880	0933	0985	1038	1090	1143	1195	1247	1300	
82	1352	1405	1457	1510	1562	1614	1667	1719	1772	1824	
83	1877	1929	1981	2034	2086	2139	2191	2244	2296	2348	
84	2401	2453	2506	2558	2611	2663	2715	2768	2820	2873	
85	2925	2978	3030	3082	3135	3187	3240	3292	3344	3397	
86	3449	3502	3554	3607	3659	3711	3764	3816	3869	3921	
87	3973	4026	4078	4131	4183	4235	4288	4340	4393	4445	
88	4497	4550	4602	4655	4707	4759	4812	4864	4917	4969	
89	5021	5074	5126	5179	5231	5283	5336	5388	5441	5493	
8290	5545	5598	5650	5702	5755	5807	5860	5912	5964	6017	
91	6069	6122	6174	6226	6279	6331	6383	6436	6488	6541	
92	6593	6645	6698	6750	6802	6855	6907	6960	7012	7064	
93	7117	7169	7221	7274	7326	7378	7431	7483	7536	7588	
94	7640	7693	7745	7797	7850	7902	7954	8007	8059	8112	
95	8164	8216	8269	8321	8373	8426	8478	8530	8583	8635	
96	8687	8740	8792	8844	8897	8949	9002	9054	9106	9159	
97	9211	9263	9316	9368	9420	9473	9525	9577	9630	9682	
98	9734	9787	9839	9891	9944	9996	0048	0101	0153	0205	
99	9990258	0310	0362	0415	0467	0519	0572	0624	0676	0729	
52											
5 { 52 5 10 16 21 26 31 36 42 47											

No.	0	1	2	3	4	5	6	7	8	9	D.
8300	9190781	0833	0886	0938	0990	1043	1095	1147	1200	1252	
01	1304	1356	1409	1461	1513	1566	1618	1670	1723	1775	
02	1827	1880	1932	1984	2037	2089	2141	2193	2246	2298	
03	2350	2403	2455	2507	2560	2612	2664	2717	2769	2821	
04	2873	2926	2978	3030	3083	3135	3187	3239	3292	3344	
05	3396	3449	3501	3553	3606	3658	3710	3762	3815	3867	
06	3919	3972	4024	4076	4128	4181	4233	4285	4338	4390	
07	4442	4494	4547	4599	4651	4703	4756	4808	4860	4913	
08	4965	5017	5069	5122	5174	5226	5279	5331	5383	5435	
09	5488	5540	5592	5644	5697	5749	5801	5853	5906	5958	
8310	6010	6062	6115	6167	6219	6272	6324	6376	6428	6481	
11	6533	6585	6637	6690	6742	6794	6846	6899	6951	7003	
12	7055	7108	7160	7212	7264	7317	7369	7421	7473	7526	
13	7578	7630	7682	7735	7787	7839	7891	7943	7996	8048	
14	8100	8152	8205	8257	8309	8361	8414	8466	8518	8570	
15	8623	8675	8727	8779	8831	8884	8936	8988	9040	9093	
16	9145	9197	9249	9301	9354	9406	9458	9510	9563	9615	
17	9667	9719	9771	9824	9876	9928	9980	0033	0085	0137	
18	9200189	0241	0294	0346	0398	0450	0502	0555	0607	0659	
19	0711	0763	0816	0868	0920	0972	1024	1077	1129	1181	
8320	1233	1285	1338	1390	1442	1494	1546	1599	1651	1703	
21	1755	1807	1860	1912	1964	2016	2068	2121	2173	2225	
22	2277	2329	2381	2434	2486	2538	2590	2642	2695	2747	
23	2799	2851	2903	2955	3008	3060	3112	3164	3216	3269	
24	3321	3373	3425	3477	3529	3582	3634	3686	3738	3790	
25	3842	3895	3947	3999	4051	4103	4155	4208	4260	4312	
26	4364	4416	4468	4521	4573	4625	4677	4729	4781	4833	
27	4886	4938	4990	5042	5094	5146	5199	5251	5303	5355	
28	5407	5459	5511	5564	5616	5668	5720	5772	5824	5876	
29	5929	5981	6033	6085	6137	6189	6241	6294	6346	6398	
8330	6450	6502	6554	6606	6659	6711	6763	6815	6867	6919	
31	6971	7023	7075	7128	7180	7232	7284	7336	7388	7440	
32	7493	7545	7597	7649	7701	7753	7805	7857	7910	7962	
33	8014	8066	8118	8170	8222	8274	8327	8379	8431	8483	
34	8535	8587	8639	8691	8743	8796	8848	8900	8952	9004	
35	9056	9108	9160	9212	9264	9317	9369	9421	9473	9525	
36	9577	9629	9681	9733	9785	9838	9890	9942	9994	0046	
37	9210098	0150	0202	0254	0306	0358	0411	0463	0515	0567	
38	0619	0671	0723	0775	0827	0879	0931	0983	1036	1088	
39	1140	1192	1244	1296	1348	1400	1452	1504	1556	1608	
8340	1661	1713	1765	1817	1869	1921	1973	2025	2077	2129	
41	2181	2233	2285	2337	2389	2442	2494	2546	2598	2650	
42	2702	2754	2806	2858	2910	2962	3014	3066	3118	3170	
43	3222	3274	3327	3379	3431	3483	3535	3587	3639	3691	
44	3743	3795	3847	3899	3951	4003	4055	4107	4159	4211	
45	4263	4315	4367	4420	4472	4524	4576	4628	4680	4732	
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8346	9214784	4836	4888	4940	4992	5044	5096	5148	5200	5252	
47	5304	5356	5408	5460	5512	5564	5616	5668	5720	5772	
48	5824	5876	5928	5980	6032	6084	6136	6188	6240	6292	
49	6345	6397	6449	6501	6553	6605	6657	6709	6761	6813	
8350	6865	6917	6969	7021	7073	7125	7177	7229	7281	7333	
51	7385	7437	7489	7541	7593	7645	7697	7749	7801	7853	
52	7905	7957	8009	8061	8113	8165	8217	8269	8321	8373	
53	8425	8477	8529	8581	8633	8685	8737	8789	8841	8893	
54	8945	8997	9049	9101	9153	9205	9257	9309	9361	9413	
55	9465	9517	9569	9621	9673	9724	9776	9828	9880	9932	
56	9984	0036	0088	0140	0192	0244	0296	0348	0400	0452	
57	9220504	0556	0608	0660	0712	0764	0816	0868	0920	0972	
58	1094	1076	1128	1180	1232	1283	1335	1387	1439	1491	
59	1543	1595	1647	1699	1751	1803	1855	1907	1959	2011	
8360	2063	2115	2167	2219	2271	2323	2374	2426	2478	2530	
61	2582	2634	2686	2738	2790	2842	2894	2946	2998	3050	
62	3102	3154	3206	3257	3309	3361	3413	3465	3517	3569	
63	3621	3673	3725	3777	3829	3881	3933	3984	4036	4088	
64	4140	4192	4244	4296	4348	4400	4452	4504	4556	4608	
65	4659	4711	4763	4815	4867	4919	4971	5023	5075	5127	
66	5179	5231	5283	5334	5386	5438	5490	5542	5594	5646	
67	5698	5750	5801	5853	5905	5957	6009	6061	6113	6165	
68	6217	6269	6321	6372	6424	6476	6528	6580	6632	6684	
69	6736	6788	6839	6891	6943	6995	7047	7099	7151	7203	
8370	7255	7306	7358	7410	7462	7514	7566	7618	7670	7722	
71	7773	7825	7877	7929	7981	8033	8085	8137	8188	8240	
72	8292	8344	8396	8448	8500	8552	8603	8655	8707	8759	
73	8811	8863	8915	8967	9018	9070	9122	9174	9226	9278	
74	9330	9381	9433	9485	9537	9589	9641	9693	9744	9796	
75	9848	9900	9952	0004	0056	0107	0159	0211	0263	0315	
76	9230367	0419	0470	0522	0574	0626	0678	0730	0781	0833	
77	0885	0937	0989	1041	1093	1144	1196	1248	1300	1352	
78	1404	1455	1507	1559	1611	1663	1715	1766	1818	1870	
79	1922	1974	2026	2077	2129	2181	2233	2285	2337	2388	
8380	2440	2492	2544	2596	2647	2699	2751	2803	2855	2907	
81	2958	3010	3062	3114	3166	3217	3269	3321	3373	3425	
82	3477	3528	3580	3632	3684	3736	3787	3839	3891	3943	
83	3995	4046	4098	4150	4202	4254	4305	4357	4409	4461	
84	4513	4564	4616	4668	4720	4772	4823	4875	4927	4979	
85	5081	5082	5134	5186	5238	5290	5341	5393	5445	5497	
86	5549	5600	5652	5704	5756	5808	5859	5911	5963	6015	
87	6066	6118	6170	6222	6274	6325	6377	6429	6481	6532	
88	6584	6636	6688	6740	6791	6843	6895	6947	6998	7050	
89	7102	7154	7205	7257	7309	7361	7413	7464	7516	7568	
8390	7620	7671	7723	7775	7827	7878	7930	7982	8034	8085	
91	8137	8189	8241	8293	8344	8396	8448	8499	8551	8603	
52 { 5 10 15 21 26 31 36 42 47 }											

No.	0	1	2	3	4	5	6	7	8	9	D.
8392	9238655	8707	8758	8810	8862	8913	8965	9017	9069	9120	
93	9172	9224	9276	9327	9379	9431	9483	9534	9586	9638	
94	9690	9741	9793	9845	9897	9948	0000	0052	0104	0155	
95	9240207	0259	0310	0362	0414	0466	0517	0569	0621	0673	
96	0724	0776	0828	0879	0931	0983	1035	1086	1138	1190	
97	1242	1293	1345	1397	1448	1500	1552	1604	1655	1707	
98	1759	1810	1862	1914	1966	2017	2069	2121	2172	2224	
99	2276	2328	2379	2431	2483	2534	2586	2638	2689	2741	
8400	2793	2845	2896	2948	3000	3051	3103	3155	3206	3258	
01	3310	3362	3413	3465	3517	3568	3620	3672	3723	3775	
02	3827	3878	3930	3982	4034	4085	4137	4189	4240	4292	
03	4344	4395	4447	4499	4550	4602	4654	4705	4757	4809	
04	4860	4912	4964	5015	5067	5119	5170	5222	5274	5326	
05	5377	5429	5481	5532	5584	5636	5687	5739	5791	5842	
06	5894	5946	5997	6049	6101	6152	6204	6255	6307	6359	
07	6410	6462	6514	6565	6617	6669	6720	6772	6824	6876	
08	6927	6979	7030	7082	7134	7185	7237	7289	7340	7392	
09	7444	7495	7547	7598	7650	7702	7753	7805	7857	7908	
8410	7960	8012	8063	8115	8167	8218	8270	8321	8373	8425	
11	8476	8528	8580	8631	8683	8734	8786	8838	8889	8941	
12	8993	9044	9096	9148	9199	9251	9302	9354	9406	9457	
13	9509	9561	9612	9664	9715	9767	9819	9870	9922	9973	
14	9250025	0077	0128	0180	0232	0283	0335	0386	0438	0490	
15	0541	0593	0644	0696	0748	0799	0851	0902	0954	1006	
16	1057	1109	1160	1212	1264	1315	1367	1418	1470	1522	
17	1573	1625	1676	1728	1780	1831	1883	1934	1986	2038	
18	2089	2141	2192	2244	2296	2347	2399	2450	2502	2554	
19	2605	2657	2708	2760	2811	2863	2915	2966	3018	3069	
8420	3121	3172	3224	3276	3327	3379	3430	3482	3534	3585	
21	3637	3688	3740	3791	3843	3895	3946	3998	4049	4101	
22	4152	4204	4256	4307	4359	4410	4462	4513	4565	4616	
23	4668	4720	4771	4823	4874	4926	4977	5029	5080	5132	
24	5184	5235	5287	5338	5390	5441	5493	5544	5596	5648	
25	5699	5751	5802	5854	5905	5957	6008	6060	6111	6163	
26	6215	6266	6318	6369	6421	6472	6524	6575	6627	6678	
27	6730	6781	6833	6885	6936	6988	7039	7091	7142	7194	
28	7245	7297	7348	7400	7451	7503	7554	7606	7657	7709	
29	7761	7812	7864	7915	7967	8018	8070	8121	8173	8224	
8430	8276	8327	8379	8430	8482	8533	8585	8636	8688	8739	
31	8791	8842	8894	8945	8997	9048	9100	9151	9203	9254	
32	9306	9357	9409	9460	9512	9563	9615	9667	9718	9770	
33	9821	9873	9924	9975	0027	0078	0130	0181	0233	0284	
34	9260336	0387	0439	0490	0542	0593	0645	0696	0748	0799	
35	0851	0902	0954	1005	1057	1108	1160	1211	1263	1314	
36	1366	1417	1469	1520	1572	1623	1675	1726	1778	1829	
37	1880	1932	1983	2035	2086	2138	2189	2241	2292	2344	
52											
5											
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No.	0	1	2	3	4	5	6	7	8	9	D.
8438	9362395	2447	2498	2550	2601	2653	2704	2755	2807	2858	
39	2910	2961	3013	3064	3116	3167	3219	3270	3322	3373	
8440	3424	3476	3527	3579	3630	3682	3733	3785	3836	3888	
41	3939	3990	4042	4093	4145	4196	4248	4299	4351	4402	
42	4453	4505	4556	4608	4659	4711	4762	4814	4865	4916	
43	4968	5019	5071	5122	5174	5225	5277	5328	5379	5431	
44	5482	5534	5585	5637	5688	5739	5791	5842	5894	5945	
45	5997	6048	6099	6151	6202	6254	6305	6357	6408	6459	
46	6511	6562	6614	6665	6716	6768	6819	6871	6922	6974	
47	7025	7076	7128	7179	7231	7282	7333	7385	7436	7488	
48	7539	7590	7642	7693	7745	7796	7847	7899	7950	8002	
49	8053	8105	8156	8207	8259	8310	8362	8413	8464	8516	
8450	8567	8618	8670	8721	8773	8824	8875	8927	8978	9030	
51	9081	9132	9184	9235	9287	9338	9389	9441	9492	9543	
52	9595	9646	9698	9749	9800	9852	9903	9955	0006	0057	
53	9270109	0160	0211	0263	0314	0366	0417	0468	0520	0571	
54	0622	0674	0725	0777	0828	0879	0931	0982	1033	1085	
55	1136	1187	1239	1290	1342	1393	1444	1496	1547	1598	
56	1650	1701	1752	1804	1855	1907	1958	2009	2061	2112	
57	2163	2215	2266	2317	2369	2420	2471	2523	2574	2625	
58	2677	2728	2780	2831	2882	2934	2985	3036	3088	3139	
59	3190	3242	3293	3344	3396	3447	3498	3550	3601	3652	
8460	3704	3755	3806	3858	3909	3960	4012	4063	4114	4166	
61	4217	4268	4320	4371	4422	4474	4525	4576	4628	4679	
62	4730	4782	4833	4884	4935	4987	5038	5089	5141	5192	
63	5243	5295	5346	5397	5449	5500	5551	5603	5654	5705	
64	5767	5808	5859	5910	5962	6013	6064	6116	6167	6218	
65	6270	6321	6372	6424	6475	6526	6577	6629	6680	6731	
66	6783	6834	6885	6937	6988	7039	7090	7142	7193	7244	
67	7296	7347	7398	7449	7501	7552	7603	7655	7706	7757	
68	7808	7860	7911	7962	8014	8065	8116	8167	8219	8270	
69	8321	8373	8424	8475	8526	8578	8629	8680	8731	8783	
8470	8834	8885	8937	8988	9039	9090	9142	9193	9244	9296	
71	9347	9398	9449	9501	9552	9603	9654	9706	9757	9808	
72	9859	9911	9962	0013	0065	0116	0167	0218	0270	0321	
73	9280372	0423	0475	0526	0577	0628	0680	0731	0782	0833	
74	0885	0936	0987	1038	1090	1141	1192	1243	1295	1346	
75	1397	1448	1500	1551	1602	1653	1705	1756	1807	1858	
76	1909	1961	2012	2063	2114	2166	2217	2268	2319	2371	
77	2422	2473	2524	2576	2627	2678	2729	2780	2832	2883	
78	2934	2985	3037	3088	3139	3190	3241	3293	3344	3395	
79	3446	3498	3549	3600	3651	3702	3754	3805	3856	3907	
8480	3959	4010	4061	4112	4163	4215	4266	4317	4368	4419	
81	4471	4522	4573	4624	4675	4727	4778	4829	4880	4931	
82	4983	5034	5085	5136	5187	5238	5290	5341	5392	5443	
83	5495	5546	5597	5648	5699	5751	5802	5853	5904	5955	
A { 51 A { 5 10 15 20 26 31 36 41 46											

No.	0	1	2	3	4	5	6	7	8	9	D.
8484	9286007	6058	6109	6160	6211	6263	6314	6365	6416	6467	
85	6518	6570	6621	6672	6723	6774	6826	6877	6928	6979	
86	7030	7081	7133	7184	7235	7286	7337	7389	7440	7491	
87	7542	7593	7644	7696	7747	7798	7849	7900	7951	8008	
88	8054	8105	8156	8207	8258	8310	8361	8412	8463	8514	
89	8565	8616	8668	8719	8770	8821	8872	8923	8975	9026	
8480	9077	9128	9179	9230	9282	9333	9384	9435	9486	9537	
91	9588	9640	9691	9742	9793	9844	9895	9946	9998	0049	
92	9290100	0151	0202	0253	0304	0356	0407	0458	0509	0560	
93	0611	0662	0714	0765	0816	0867	0918	0969	1020	1071	
94	1123	1174	1225	1276	1327	1378	1429	1480	1532	1583	
95	1634	1685	1736	1787	1838	1889	1941	1992	2043	2094	
96	2145	2196	2247	2298	2350	2401	2452	2503	2554	2605	
97	2656	2707	2758	2810	2861	2912	2963	3014	3065	3116	
98	3167	3218	3269	3321	3372	3423	3474	3525	3576	3627	
99	3678	3729	3780	3832	3883	3934	3985	4036	4087	4138	
8500	4189	4240	4291	4343	4394	4445	4496	4547	4598	4649	
01	4700	4751	4802	4853	4905	4956	5007	5058	5109	5160	
02	5211	5262	5313	5364	5415	5466	5517	5569	5620	5671	
03	5722	5773	5824	5875	5926	5977	6028	6079	6130	6181	
04	6233	6284	6335	6386	6437	6488	6539	6590	6641	6692	
05	6743	6794	6845	6896	6947	6998	7050	7101	7152	7203	
06	7254	7305	7356	7407	7458	7509	7560	7611	7662	7713	
07	7764	7815	7866	7917	7969	8020	8071	8122	8173	8224	
08	8275	8326	8377	8428	8479	8530	8581	8632	8683	8734	
09	8785	8836	8887	8938	8989	9040	9091	9142	9194	9245	
8510	9296	9347	9398	9449	9500	9551	9602	9653	9704	9755	
11	9806	9857	9908	9959	0010	0061	0112	0163	0214	0265	
12	9300316	0367	0418	0469	0520	0571	0622	0673	0724	0775	
13	0826	0877	0928	0979	1030	1081	1132	1183	1234	1285	
14	1336	1387	1438	1489	1540	1591	1643	1694	1745	1796	
15	1847	1898	1949	2000	2051	2102	2153	2204	2255	2306	
16	2357	2408	2459	2510	2561	2612	2663	2713	2764	2815	
17	2866	2917	2968	3019	3070	3121	3172	3223	3274	3325	
18	3376	3427	3478	3529	3580	3631	3682	3733	3784	3835	
19	3886	3937	3988	4039	4090	4141	4192	4243	4294	4345	
8520	4396	4447	4498	4549	4600	4651	4702	4753	4804	4855	
21	4906	4957	5008	5059	5110	5160	5211	5262	5313	5364	
22	5415	5466	5517	5568	5619	5670	5721	5772	5823	5874	
23	5925	5976	6027	6078	6129	6180	6231	6282	6333	6384	
24	6434	6485	6536	6587	6638	6689	6740	6791	6842	6893	
25	6944	6995	7046	7097	7148	7199	7250	7300	7351	7402	
26	7453	7504	7555	7606	7657	7708	7759	7810	7861	7912	
27	7963	8014	8064	8115	8166	8217	8268	8319	8370	8421	
28	8472	8523	8574	8625	8676	8727	8777	8828	8879	8930	
29	8981	9032	9083	9134	9185	9236	9287	9338	9389	9439	
51 { 5 { 10 { 15 { 20 { 26 { 31 { 36 { 41 { 46 {											

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8530	9309490	9541	9592	9643	9694	9745	9796	9847	9898	9949	
31	9999	0050	0101	0152	0203	0254	0305	0356	0407	0458	
32	9310506	0559	0610	0661	0712	0763	0814	0865	0916	0967	
33	1017	1068	1119	1170	1221	1272	1323	1374	1425	1475	
34	1526	1577	1628	1679	1730	1781	1832	1883	1933	1984	
35	2035	2086	2137	2188	2239	2290	2341	2391	2442	2493	
36	2544	2595	2646	2697	2748	2798	2849	2900	2951	3002	
37	3053	3104	3155	3206	3256	3307	3358	3409	3460	3511	
38	3562	3612	3663	3714	3765	3816	3867	3918	3968	4019	
39	4070	4121	4172	4223	4274	4324	4375	4426	4477	4528	
8540	4579	4630	4680	4731	4782	4833	4884	4935	4986	5036	
41	5087	5138	5189	5240	5291	5341	5392	5443	5494	5545	
42	5596	5647	5697	5748	5799	5850	5901	5952	6002	6053	
43	6104	6155	6206	6257	6307	6358	6409	6460	6511	6562	
44	6612	6663	6714	6765	6816	6867	6917	6968	7019	7070	
45	7121	7171	7222	7273	7324	7375	7426	7476	7527	7578	
46	7629	7680	7731	7781	7832	7883	7934	7985	8036	8086	
47	8137	8188	8239	8289	8340	8391	8442	8493	8544	8594	
48	8645	8696	8747	8798	8848	8899	8950	9001	9052	9102	
49	9153	9204	9255	9306	9356	9407	9458	9509	9560	9610	
8550	9661	9712	9763	9814	9864	9915	9966	0017	0067	0118	
51	9320169	0220	0271	0321	0372	0423	0474	0525	0575	0626	
52	0677	0728	0778	0829	0880	0931	0982	1032	1083	1134	
53	1185	1235	1286	1337	1388	1439	1489	1540	1591	1642	
54	1692	1743	1794	1845	1896	1946	1997	2048	2099	2149	
55	2200	2251	2302	2352	2403	2454	2505	2556	2606	2657	
56	2708	2759	2809	2860	2911	2962	3012	3063	3114	3165	
57	3215	3266	3317	3368	3418	3469	3520	3571	3621	3672	
58	3723	3774	3824	3875	3926	3977	4027	4078	4129	4180	
59	4230	4281	4332	4382	4433	4484	4535	4585	4636	4687	
8560	4738	4788	4839	4890	4941	4991	5042	5093	5144	5194	
61	5245	5296	5346	5397	5448	5499	5549	5600	5651	5702	
62	5752	5803	5854	5904	5955	6006	6057	6107	6158	6209	
63	6259	6310	6361	6412	6462	6513	6564	6614	6665	6716	
64	6767	6817	6868	6919	6969	7020	7071	7122	7172	7223	
65	7274	7324	7375	7426	7476	7527	7578	7629	7679	7730	
66	7781	7831	7882	7933	7983	8034	8085	8136	8186	8237	
67	8288	8338	8389	8440	8490	8541	8592	8643	8693	8744	
68	8795	8845	8896	8947	8997	9048	9099	9149	9200	9251	
69	9301	9352	9403	9453	9504	9555	9606	9656	9707	9758	
8570	9808	9859	9910	9960	0011	0062	0112	0163	0214	0264	
71	9330315	0366	0416	0467	0518	0568	0619	0670	0720	0771	
72	0822	0872	0923	0974	1024	1075	1126	1176	1227	1278	
73	1282	1379	1430	1480	1531	1582	1632	1683	1733	1784	
74	1835	1885	1936	1987	2037	2088	2139	2189	2240	2291	
75	2341	2392	2443	2493	2544	2595	2646	2696	2746	2797	
51											
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8576	9332848	2898	2949	3000	3050	3101	3152	3202	3253	3303	
77	3354	3405	3455	3506	3557	3607	3658	3709	3759	3810	
78	3860	3911	3962	4012	4063	4114	4164	4215	4265	4316	
79	4367	4417	4468	4519	4569	4620	4670	4721	4772	4822	
8580	4873	4923	4974	5025	5075	5126	5177	5227	5278	5328	
81	5379	5430	5480	5531	5581	5632	5683	5733	5784	5834	
82	5885	5936	5986	6037	6088	6138	6189	6239	6290	6341	
83	6391	6442	6492	6543	6594	6644	6695	6745	6796	6846	
84	6897	6948	6998	7049	7099	7150	7201	7251	7302	7352	
85	7403	7454	7504	7555	7605	7656	7707	7757	7808	7858	
86	7909	7959	8010	8061	8111	8162	8212	8263	8313	8364	
87	8415	8465	8516	8566	8611	8668	8718	8769	8819	8870	
88	8920	8971	9021	9072	9123	9173	9224	9274	9325	9375	
89	9426	9477	9527	9578	9628	9679	9729	9780	9831	9881	
8590	9932	9982	0033	0083	0134	0184	0235	0286	0336	0387	
91	9340437	0488	0538	0589	0639	0690	0740	0791	0842	0892	
92	0943	0993	1044	1094	1145	1195	1246	1296	1347	1398	
93	1448	1499	1549	1600	1650	1701	1751	1802	1852	1903	
94	1953	2004	2055	2105	2156	2206	2257	2307	2358	2408	
95	2459	2509	2560	2610	2661	2711	2762	2812	2863	2914	
96	2964	3015	3065	3116	3166	3217	3267	3318	3368	3419	
97	3469	3520	3570	3621	3671	3722	3772	3823	3873	3924	
98	3974	4025	4075	4126	4176	4227	4277	4328	4378	4429	
99	4479	4530	4580	4631	4682	4732	4783	4833	4884	4934	
8600	4985	5035	5086	5136	5187	5237	5287	5338	5388	5439	
01	5489	5540	5590	5641	5691	5742	5792	5843	5893	5944	
02	5994	6045	6095	6146	6196	6247	6297	6348	6398	6449	
03	6499	6550	6600	6651	6701	6752	6802	6853	6903	6954	
04	7004	7054	7105	7155	7206	7256	7307	7357	7408	7458	
05	7509	7559	7610	7660	7711	7761	7812	7862	7912	7963	
06	8013	8064	8114	8165	8215	8266	8316	8367	8417	8468	
07	8518	8568	8619	8669	8720	8770	8821	8871	8922	8972	
08	9023	9073	9123	9174	9224	9275	9325	9376	9426	9477	
09	9527	9578	9628	9678	9729	9779	9830	9880	9931	9981	
8610	9350032	0082	0132	0183	0233	0284	0334	0385	0435	0485	
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12	1040	1091	1141	1191	1242	1292	1343	1393	1444	1494	
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15	2553	2603	2654	2704	2754	2805	2855	2906	2956	3006	
16	3057	3107	3158	3208	3259	3309	3359	3410	3460	3511	
17	3561	3611	3662	3712	3763	3813	3863	3914	3964	4015	
18	4065	4115	4166	4216	4266	4317	4367	4418	4468	4518	
19	4569	4619	4670	4720	4770	4821	4871	4922	4972	5022	
8620	5073	5123	5173	5224	5274	5325	5375	5425	5476	5526	
21	5576	5627	5677	5728	5778	5828	5879	5929	5979	6030	
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23	6584	6634	6685	6735	6785	6836	6886	6936	6987	7037	
24	7087	7138	7188	7239	7289	7339	7390	7440	7490	7541	
25	7591	7641	7692	7742	7792	7843	7893	7943	7994	8044	
26	8095	8145	8195	8246	8296	8346	8397	8447	8497	8548	
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28	9101	9152	9202	9252	9303	9353	9403	9454	9504	9554	
29	9605	9655	9705	9756	9806	9856	9907	9957	0007	0058	
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32	1114	1165	1215	1265	1316	1366	1416	1466	1517	1567	
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35	2623	2674	2724	2774	2825	2875	2925	2975	3026	3076	
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4640	5137	5188	5238	5288	5338	5389	5439	5489	5540	5590	
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47	8655	8705	8755	8805	8855	8906	8956	9006	9056	9107	
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62	6182	6232	6282	6332	6382	6432	6483	6533	6583	6633	
63	6683	6733	6783	6834	6884	6934	6984	7034	7084	7134	
64	7184	7235	7285	7335	7385	7435	7485	7535	7585	7636	
65	7686	7736	7786	7836	7886	7936	7986	8037	8087	8137	
66	8187	8237	8287	8337	8387	8437	8488	8538	8588	8638	
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8668	9379189	9239	9289	9339	9389	9440	9490	9540	9590	9640	
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8670	9380191	0241	0291	0341	0391	0441	0492	0542	0592	0642	
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72	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	
73	1693	1744	1794	1844	1894	1944	1994	2044	2094	2144	
74	2194	2244	2294	2344	2394	2445	2495	2545	2595	2645	
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76	3195	3245	3296	3346	3396	3446	3496	3546	3596	3646	
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79	4697	4747	4797	4847	4897	4947	4997	5047	5097	5147	
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81	5698	5748	5798	5848	5898	5948	5998	6048	6098	6148	
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92	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	
93	1697	1747	1797	1847	1897	1947	1997	2046	2096	2146	
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96	3195	3245	3295	3345	3395	3445	3495	3545	3595	3645	
97	3695	3745	3795	3845	3894	3944	3994	4044	4094	4144	
98	4194	4244	4294	4344	4394	4444	4494	4544	4593	4643	
99	4693	4743	4793	4843	4893	4943	4993	5043	5093	5143	
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02	6191	6241	6291	6341	6390	6440	6490	6540	6590	6640	
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04	7189	7239	7289	7339	7388	7438	7488	7538	7588	7638	
05	7688	7738	7788	7837	7887	7937	7987	8037	8087	8137	
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08	9184	9234	9284	9334	9384	9434	9483	9533	9583	9633	
09	9683	9733	9783	9833	9882	9932	9982	0032	0082	0132	
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11	0680	0730	0780	0830	0880	0929	0979	1029	1079	1129	
12	1179	1229	1278	1328	1378	1428	1478	1528	1577	1627	
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17	3670	3720	3770	3820	3870	3920	3969	4019	4069	4119	
18	4169	4218	4268	4318	4368	4418	4468	4517	4567	4617	
19	4667	4717	4766	4816	4866	4916	4966	5015	5065	5115	
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22	6161	6211	6260	6310	6360	6410	6460	6509	6559	6609	
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24	7157	7206	7256	7306	7356	7405	7455	7505	7555	7605	
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28	9147	9197	9247	9297	9346	9396	9446	9496	9545	9595	
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33	1635	1684	1734	1784	1834	1883	1933	1983	2032	2082	
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43	6605	6654	6704	6754	6803	6853	6903	6952	7002	7052	
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46	8095	8144	8194	8244	8293	8343	8393	8442	8492	8542	
47	8591	8641	8691	8740	8790	8840	8889	8939	8988	9038	
48	9088	9137	9187	9237	9286	9336	9386	9435	9485	9535	
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53	1569	1619	1669	1718	1768	1817	1867	1917	1966	2016	
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55	2562	2611	2661	2710	2760	2810	2859	2909	2958	3008	
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57	3553	3603	3653	3702	3752	3801	3851	3901	3950	4000	
58	4049	4099	4149	4198	4248	4297	4347	4397	4446	4496	
59	4545	4595	4644	4694	4744	4793	4843	4892	4942	4991	
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62	6032	6082	6132	6181	6231	6280	6330	6379	6429	6479	
63	6528	6578	6627	6677	6726	6776	6825	6875	6925	6974	
64	7024	7073	7123	7172	7222	7271	7321	7371	7420	7470	
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66	8015	8064	8114	8163	8213	8262	8312	8361	8411	8461	
67	8510	8560	8609	8659	8708	8758	8807	8857	8906	8956	
68	9005	9055	9104	9154	9204	9253	9303	9352	9402	9451	
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72	0986	1036	1085	1135	1184	1234	1283	1333	1382	1432	
73	1481	1531	1580	1630	1679	1729	1778	1828	1877	1927	
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82	5934	5984	6033	6083	6132	6182	6231	6280	6330	6379	
83	6429	6478	6528	6577	6627	6676	6726	6775	6824	6874	49
84	6923	6973	7022	7072	7121	7170	7220	7269	7319	7368	
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87	8406	8456	8505	8555	8604	8653	8703	8752	8802	8851	
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91	9440383	0432	0482	0531	0580	0630	0679	0729	0778	0827	
92	0877	0926	0976	1025	1074	1124	1173	1223	1272	1321	
93	1371	1420	1470	1519	1568	1618	1667	1716	1766	1815	
94	1865	1914	1963	2013	2062	2112	2161	2210	2260	2309	
95	2358	2408	2457	2507	2556	2605	2655	2704	2753	2803	
96	2852	2902	2951	3000	3050	3099	3148	3198	3247	3297	
97	3346	3395	3445	3494	3543	3593	3642	3691	3741	3790	
98	3840	3889	3938	3988	4037	4086	4136	4185	4234	4284	
99	4333	4383	4432	4481	4531	4580	4629	4679	4728	4777	
8800	4827	4876	4925	4975	5024	5073	5123	5172	5222	5271	
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02	5814	5863	5912	5962	6011	6060	6110	6159	6208	6258	
03	6307	6356	6406	6455	6504	6554	6603	6652	6702	6751	
04	6800	6850	6899	6948	6998	7047	7096	7146	7195	7244	
05	7294	7343	7392	7442	7491	7540	7590	7639	7688	7737	
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54	1395	1444	1493	1542	1591	1640	1689	1739	1788	1837	
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59	3847	3896	3945	3994	4043	4092	4141	4190	4239	4288	
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63	5807	5856	5905	5954	6003	6052	6101	6150	6199	6248	
64	6297	6346	6395	6444	6493	6542	6591	6640	6689	6738	
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71	9726	9775	9824	9873	9922	9971	0020	0068	0117	0166	
72	9480215	0264	0313	0362	0411	0460	0509	0558	0607	0656	
73	0705	0754	0803	0852	0901	0950	0998	1047	1096	1145	49
74	1194	1243	1292	1341	1390	1439	1488	1537	1586	1635	
75	1684	1733	1781	1830	1879	1928	1977	2026	2075	2124	
76	2173	2222	2271	2320	2369	2418	2467	2515	2564	2613	
77	2662	2711	2760	2809	2858	2907	2956	3005	3054	3102	
78	3151	3200	3249	3298	3347	3396	3445	3494	3543	3592	
79	3641	3689	3738	3787	3836	3885	3934	3983	4032	4081	
8880	4130	4179	4227	4276	4325	4374	4423	4472	4521	4570	
81	4619	4668	4717	4765	4814	4863	4912	4961	5010	5059	
82	5108	5157	5205	5254	5303	5352	5401	5450	5499	5548	
83	5597	5646	5694	5743	5792	5841	5890	5939	5988	6037	
84	6085	6134	6183	6232	6281	6330	6379	6428	6477	6525	
85	6574	6623	6672	6721	6770	6819	6868	6916	6965	7014	
86	7063	7112	7161	7210	7259	7307	7356	7405	7454	7503	
87	7552	7601	7650	7698	7747	7796	7845	7894	7943	7992	
88	8040	8089	8138	8187	8236	8285	8334	8382	8431	8480	
89	8529	8578	8627	8676	8724	8773	8822	8871	8920	8969	
8890	9018	9066	9115	9164	9213	9262	9311	9360	9408	9457	
91	9506	9555	9604	9653	9701	9750	9799	9848	9897	9946	
92	9995	0043	0092	0141	0190	0239	0288	0336	0385	0434	
93	9490483	0532	0581	0629	0678	0727	0776	0825	0874	0922	
94	0971	1020	1069	1118	1167	1215	1264	1313	1362	1411	
95	1460	1508	1557	1606	1655	1704	1752	1801	1850	1899	
96	1948	1997	2045	2094	2143	2192	2241	2289	2338	2387	
97	2436	2485	2534	2582	2631	2680	2729	2778	2826	2875	
49 { 5 10 15 20 25 29 34 39 44											

No.	0	1	2	3	4	5	6	7	8	9	D.
8898	9492924	2973	3022	3070	3119	3168	3217	3266	3314	3363	
99	3412	3461	3510	3558	3607	3656	3705	3754	3802	3851	
8900	3900	3949	3998	4046	4095	4144	4193	4242	4290	4339	
01	4388	4437	4486	4534	4583	4632	4681	4730	4778	4827	
02	4876	4925	4973	5022	5071	5120	5169	5217	5266	5315	
03	5364	5413	5461	5510	5559	5608	5656	5705	5754	5803	
04	5852	5900	5949	5998	6047	6095	6144	6193	6242	6290	
05	6339	6388	6437	6486	6534	6583	6632	6681	6729	6778	
06	6827	6876	6924	6973	7022	7071	7119	7168	7217	7266	
07	7315	7363	7412	7461	7510	7558	7607	7656	7705	7753	
08	7802	7851	7900	7948	7997	8046	8095	8143	8192	8241	
09	8290	8338	8387	8436	8485	8533	8582	8631	8680	8728	
8910	8777	8826	8875	8923	8972	9021	9069	9118	9167	9216	
11	9264	9313	9362	9411	9459	9508	9557	9606	9654	9703	
12	9752	9801	9849	9898	9947	9995	0044	0093	0142	0190	
13	9500239	0288	0337	0385	0434	0483	0531	0580	0629	0678	
14	0726	0775	0824	0872	0921	0970	1019	1067	1116	1165	
15	1213	1262	1311	1360	1408	1457	1506	1554	1603	1652	
16	1701	1749	1798	1847	1895	1944	1993	2042	2090	2139	
17	2188	2236	2285	2334	2382	2431	2480	2529	2577	2626	
18	2675	2723	2772	2821	2869	2918	2967	3016	3064	3113	
19	3162	3210	3259	3308	3356	3405	3454	3502	3551	3600	
8920	3649	3697	3746	3795	3843	3892	3941	3989	4038	4087	49
21	4135	4184	4233	4281	4330	4379	4427	4476	4525	4574	
22	4622	4671	4720	4768	4817	4866	4914	4963	5012	5060	
23	5109	5158	5206	5255	5304	5352	5401	5450	5498	5547	
24	5596	5644	5693	5742	5790	5839	5888	5936	5985	6034	
25	6082	6131	6180	6228	6277	6326	6374	6423	6472	6520	
26	6569	6617	6666	6715	6763	6812	6861	6909	6958	7007	
27	7055	7104	7153	7201	7250	7299	7347	7396	7445	7493	
28	7542	7590	7639	7688	7736	7785	7834	7882	7931	7980	
29	8028	8077	8126	8174	8223	8271	8320	8369	8417	8466	
8930	8515	8563	8612	8660	8709	8758	8806	8855	8904	8952	
31	9001	9050	9098	9147	9195	9244	9293	9341	9390	9439	
32	9487	9536	9584	9633	9682	9730	9779	9827	9876	9925	
33	9973	0022	0071	0119	0168	0216	0265	0314	0362	0411	
34	9510459	0508	0557	0605	0654	0703	0751	0800	0848	0897	
35	0946	0994	1043	1091	1140	1189	1237	1286	1334	1383	
36	1432	1480	1529	1577	1626	1675	1723	1772	1820	1869	
37	1918	1966	2015	2063	2112	2161	2209	2258	2306	2355	
38	2404	2452	2501	2549	2598	2646	2695	2744	2792	2841	
39	2989	2938	2987	3035	3084	3132	3181	3229	3278	3327	
8940	3375	3424	3472	3521	3569	3615	3667	3715	3764	3812	
41	3861	3910	3958	4007	4055	4104	4152	4201	4250	4298	
42	4347	4395	4444	4492	4541	4589	4638	4687	4735	4784	
43	4832	4881	4929	4978	5027	5075	5124	5172	5221	5269	
ᐁ { 49 ᐁ { 5 | 10 | 15 | 20 | 25 | 29 | 34 | 39 | 44 |											

No.	0	1	2	3	4	5	6	7	8	9	D.
8944	9515318	5366	5415	5464	5512	5561	5609	5658	5706	5755	
45	5803	5852	5901	5949	5998	6046	6095	6143	6192	6240	
46	6289	6337	6386	6435	6483	6532	6580	6629	6677	6726	
47	6774	6823	6871	6920	6969	7017	7066	7114	7163	7211	
48	7260	7308	7357	7405	7454	7502	7551	7599	7648	7697	
49	7745	7794	7842	7891	7939	7988	8036	8085	8133	8182	
8950	8230	8279	8327	8376	8424	8473	8521	8570	8619	8667	
51	8716	8764	8813	8861	8910	8958	9007	9055	9104	9152	
52	9201	9249	9298	9346	9395	9443	9492	9540	9589	9637	
53	9686	9734	9783	9831	9880	9928	9977	0025	0074	0122	
54	9520171	0219	0268	0316	0365	0413	0462	0510	0559	0607	
55	0656	0704	0753	0801	0850	0898	0947	0995	1044	1092	
56	1141	1189	1238	1286	1335	1383	1432	1480	1529	1577	
57	1626	1674	1723	1771	1820	1868	1917	1965	2014	2062	
58	2111	2159	2208	2256	2305	2353	2401	2450	2498	2547	
59	2595	2644	2692	2741	2789	2838	2886	2935	2983	3032	
8960	3080	3129	3177	3226	3274	3322	3371	3419	3468	3516	
61	3565	3613	3662	3710	3759	3807	3856	3904	3952	4001	
62	4049	4098	4146	4195	4243	4292	4340	4389	4437	4486	
63	4534	4582	4631	4679	4728	4776	4825	4873	4922	4970	
64	5018	5067	5115	5164	5212	5261	5309	5358	5406	5454	
65	5503	5551	5600	5648	5697	5745	5794	5842	5890	5939	
66	5987	6036	6084	6133	6181	6230	6278	6326	6375	6423	49
67	6472	6520	6569	6617	6665	6714	6762	6811	6859	6908	
68	6956	7004	7053	7101	7150	7198	7247	7295	7343	7392	
69	7440	7489	7537	7586	7634	7682	7731	7779	7828	7876	
8970	7924	7973	8021	8070	8118	8167	8215	8263	8312	8360	
71	8409	8457	8505	8554	8602	8651	8699	8747	8796	8844	
72	8893	8941	8989	9038	9086	9135	9183	9231	9280	9328	
73	9377	9425	9473	9522	9570	9619	9667	9715	9764	9812	
74	9861	9909	9957	0006	0054	0103	0151	0199	0248	0296	
75	9530345	0393	0441	0490	0538	0587	0635	0683	0732	0780	
76	0828	0877	0925	0974	1022	1070	1119	1167	1215	1264	
77	1312	1361	1409	1457	1506	1554	1603	1651	1699	1748	
78	1796	1844	1893	1941	1989	2038	2086	2135	2183	2231	
79	2280	2328	2376	2425	2473	2522	2570	2618	2667	2715	
8980	2763	2812	2860	2908	2957	3005	3054	3102	3150	3199	
81	3247	3295	3344	3392	3440	3489	3537	3585	3634	3682	
82	3731	3779	3827	3876	3924	3972	4021	4069	4117	4166	
83	4214	4262	4311	4359	4407	4456	4504	4552	4601	4649	
84	4697	4746	4794	4842	4891	4939	4987	5036	5084	5132	
85	5181	5229	5277	5326	5374	5422	5471	5519	5567	5616	
86	5664	5712	5761	5809	5857	5906	5954	6002	6051	6099	
87	6147	6196	6244	6292	6341	6389	6437	6486	6534	6582	
88	6631	6679	6727	6776	6824	6872	6921	6969	7017	7065	
89	7114	7162	7210	7259	7307	7355	7404	7452	7500	7549	
49											
49 { 5 | 10 | 15 | 20 | 25 | 29 | 34 | 39 | 44 |											

No.	0	1	2	3	4	5	6	7	8	9	I.D.
9036	9559762	9810	9858	9906	9954	0003	0051	0099	0147	0195	
37	9560243	0291	0339	0387	0435	0483	0531	0579	0627	0675	
38	0723	0771	0819	0868	0916	0964	1012	1060	1108	1156	
39	1204	1252	1300	1348	1396	1444	1492	1540	1588	1636	
9040	1684	1732	1780	1828	1876	1925	1973	2021	2069	2117	
41	2165	2213	2261	2309	2357	2405	2453	2501	2549	2597	
42	2645	2693	2741	2789	2837	2885	2933	2981	3029	3077	
43	3125	3173	3221	3269	3317	3365	3413	3461	3509	3558	
44	3606	3654	3702	3750	3798	3846	3894	3942	3990	4038	
45	4086	4134	4182	4230	4278	4326	4374	4422	4470	4518	
46	4566	4614	4662	4710	4758	4806	4854	4902	4950	4998	
47	5046	5094	5142	5190	5238	5286	5334	5382	5430	5478	
48	5526	5574	5622	5670	5718	5766	5814	5862	5910	5958	
49	6006	6054	6102	6150	6198	6246	6294	6342	6390	6438	
9050	6486	6534	6582	6630	6678	6726	6774	6822	6870	6918	
51	6966	7014	7062	7110	7158	7206	7254	7302	7349	7397	
52	7445	7493	7541	7589	7637	7685	7733	7781	7829	7877	
53	7925	7973	8021	8069	8117	8165	8213	8261	8309	8357	
54	8405	8453	8501	8549	8597	8645	8693	8741	8789	8837	
55	8885	8933	8980	9028	9076	9124	9172	9220	9268	9316	
56	9364	9412	9460	9508	9556	9604	9652	9700	9748	9796	
57	9844	9892	9940	9988	0035	0083	0131	0179	0227	0275	
58	9570323	0371	0419	0467	0515	0563	0611	0659	0707	0755	
59	0803	0851	0898	0946	0994	1042	1090	1138	1186	1234	48
9060	1282	1330	1378	1426	1474	1522	1570	1618	1665	1713	
61	1761	1809	1857	1905	1953	2001	2049	2097	2145	2193	
62	2241	2289	2336	2384	2432	2480	2528	2576	2624	2672	
63	2720	2768	2816	2864	2911	2959	3007	3055	3103	3151	
64	3199	3247	3295	3343	3391	3439	3486	3534	3582	3630	
65	3678	3726	3774	3822	3870	3918	3966	4013	4061	4109	
66	4157	4205	4253	4301	4349	4397	4445	4492	4540	4588	
67	4636	4684	4732	4780	4828	4876	4924	4971	5019	5067	
68	5115	5163	5211	5259	5307	5355	5402	5450	5498	5546	
69	5594	5642	5690	5738	5786	5833	5881	5929	5977	6025	
9070	6073	6121	6169	6217	6264	6312	6360	6408	6456	6504	
71	6532	6600	6647	6695	6743	6791	6839	6887	6935	6983	
72	7030	7078	7126	7174	7222	7270	7318	7366	7413	7461	
73	7509	7557	7605	7653	7701	7748	7796	7844	7892	7940	
74	7988	8036	8083	8131	8179	8227	8275	8323	8371	8419	
75	8466	8514	8562	8610	8658	8706	8753	8801	8849	8897	
76	8945	8993	9041	9088	9136	9184	9232	9280	9328	9376	
77	9423	9471	9519	9567	9615	9663	9710	9758	9806	9854	
78	9902	9950	9997	0045	0093	0141	0189	0237	0284	0332	
79	9580380	0428	0476	0524	0571	0619	0667	0715	0763	0811	
9080	0858	0906	0954	1002	1050	1098	1145	1193	1241	1289	
81	1337	1385	1432	1480	1528	1576	1624	1672	1719	1767	
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48	5	10	14	19	24	29	34	38	43		

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9082	9581815	1863	1911	1958	2006	2054	2102	2150	2198	2245	
83	2293	2341	2389	2437	2484	2532	2580	2628	2676	2723	
84	2771	2819	2867	2915	2962	3010	3058	3106	3154	3202	
85	3249	3297	3345	3393	3441	3488	3536	3584	3632	3680	
86	3727	3775	3823	3871	3919	3966	4014	4062	4110	4157	
87	4205	4253	4301	4349	4396	4444	4492	4540	4588	4635	
88	4683	4731	4779	4827	4874	4922	4970	5018	5065	5113	
89	5161	5209	5257	5304	5352	5400	5448	5495	5543	5591	
9090	5639	5687	5734	5782	5830	5878	5925	5973	6021	6069	
91	6117	6164	6212	6260	6308	6355	6403	6451	6499	6547	
92	6594	6642	6690	6738	6785	6833	6881	6929	6976	7024	
93	7072	7120	7167	7215	7263	7311	7358	7406	7454	7502	
94	7549	7597	7645	7693	7741	7788	7836	7884	7932	7979	
95	8027	8075	8123	8170	8218	8266	8314	8361	8409	8457	
96	8505	8552	8600	8648	8695	8743	8791	8839	8886	8934	
97	8982	9030	9077	9125	9173	9221	9268	9316	9364	9412	
98	9459	9507	9555	9603	9650	9698	9746	9793	9841	9889	
99	9937	9984	0032	0080	0128	0175	0223	0271	0318	0366	
9100	9590414	0462	0509	0557	0605	0653	0700	0748	0796	0843	
01	0891	0939	0987	1034	1082	1130	1177	1225	1273	1321	
02	1368	1416	1464	1511	1559	1607	1655	1702	1750	1798	
03	1845	1893	1941	1989	2036	2084	2132	2179	2227	2275	
04	2322	2370	2418	2466	2513	2561	2609	2656	2704	2752	
05	2800	2847	2895	2943	2990	3038	3086	3133	3181	3229	
06	3276	3324	3372	3420	3467	3515	3563	3610	3658	3706	
07	3753	3801	3849	3896	3944	3992	4039	4087	4135	4183	
08	4230	4278	4326	4373	4421	4469	4516	4564	4612	4659	
09	4707	4755	4802	4850	4898	4945	4993	5041	5088	5136	
9110	5184	5231	5279	5327	5374	5422	5470	5517	5565	5613	
11	5660	5708	5756	5803	5851	5899	5946	5994	6042	6089	
12	6137	6185	6232	6280	6328	6375	6423	6471	6518	6566	
13	6614	6661	6709	6757	6804	6852	6900	6947	6995	7043	
14	7090	7138	7186	7233	7281	7328	7376	7424	7471	7519	
15	7567	7614	7662	7710	7757	7805	7853	7900	7948	7996	
16	8043	8091	8138	8186	8234	8281	8329	8377	8424	8472	
17	8520	8567	8615	8662	8710	8758	8805	8853	8901	8948	
18	8996	9044	9091	9139	9186	9234	9282	9329	9377	9425	
19	9472	9520	9567	9615	9663	9710	9758	9806	9853	9901	
9120	9948	9996	0044	0091	0139	0186	0234	0282	0329	0377	
21	9600425	0472	0520	0567	0615	0663	0710	0758	0805	0853	
22	0901	0948	0996	1044	1091	1139	1186	1234	1282	1329	
23	1377	1424	1472	1520	1567	1615	1662	1710	1758	1805	
24	1853	1900	1948	1996	2043	2091	2138	2186	2234	2281	
25	2329	2376	2424	2472	2519	2567	2614	2662	2709	2757	
26	2805	2852	2900	2947	2995	3043	3090	3138	3185	3233	
27	3281	3328	3376	3423	3471	3518	3566	3614	3661	3709	
48											
48 { 5 10 14 19 24 29 34 38 43											

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9128	9603756	3804	3851	3899	3947	3994	4042	4089	4137	4184	
29	4232	4280	4327	4375	4422	4470	4517	4565	4613	4660	
9130	4708	4755	4803	4850	4898	4946	4993	5041	5088	5136	
31	5183	5231	5279	5326	5374	5421	5469	5516	5564	5611	
32	5659	5707	5754	5802	5849	5897	5944	5992	6039	6087	
33	6135	6182	6230	6277	6325	6372	6420	6467	6515	6563	
34	6610	6658	6705	6753	6800	6848	6895	6943	6990	7038	
35	7086	7133	7181	7228	7276	7323	7371	7418	7466	7513	
36	7561	7608	7656	7704	7751	7799	7846	7894	7941	7989	
37	8036	8084	8131	8179	8226	8274	8321	8369	8416	8464	
38	8512	8559	8607	8654	8702	8750	8797	8844	8892	8939	
39	8987	9034	9082	9129	9177	9224	9272	9319	9367	9414	
9140	9462	9509	9557	9605	9652	9700	9747	9795	9842	9890	
41	9937	9985	0032	0080	0127	0175	0222	0270	0317	0365	
42	9610412	0460	0507	0555	0602	0650	0697	0745	0792	0840	
43	0887	0935	0982	1030	1077	1125	1172	1220	1267	1315	
44	1362	1410	1457	1505	1552	1600	1647	1695	1742	1790	
45	1837	1885	1932	1980	2027	2075	2122	2170	2217	2264	
46	2312	2359	2407	2454	2502	2549	2597	2644	2692	2739	
47	2787	2834	2882	2929	2977	3024	3072	3119	3167	3214	
48	3262	3309	3357	3404	3451	3499	3546	3594	3641	3689	
49	3736	3784	3831	3879	3926	3974	4021	4069	4116	4163	
9150	4211	4258	4306	4353	4401	4448	4496	4543	4591	4638	47
51	4686	4733	4780	4828	4875	4923	4970	5018	5065	5113	
52	5160	5208	5255	5302	5350	5397	5445	5492	5540	5587	
53	5635	5682	5730	5777	5824	5872	5919	5967	6014	6062	
54	6109	6157	6204	6251	6299	6346	6394	6441	6489	6536	
55	6583	6631	6678	6726	6773	6821	6868	6916	6963	7010	
56	7058	7105	7153	7200	7248	7295	7342	7390	7437	7485	
57	7532	7580	7627	7674	7722	7769	7817	7864	7912	7959	
58	8006	8054	8101	8149	8196	8243	8291	8338	8386	8433	
59	8481	8528	8575	8623	8670	8718	8765	8812	8860	8907	
9160	8955	9002	9050	9097	9144	9192	9239	9287	9334	9381	
61	9429	9476	9524	9571	9618	9666	9713	9761	9808	9855	
62	9903	9950	9998	0045	0092	0140	0187	0235	0282	0329	
63	9620377	0424	0472	0519	0566	0614	0661	0709	0756	0803	
64	0851	0898	0946	0993	1040	1088	1135	1183	1230	1277	
65	1325	1372	1419	1467	1514	1562	1609	1656	1704	1751	
66	1799	1846	1893	1941	1988	2035	2083	2130	2178	2225	
67	2272	2320	2367	2414	2462	2509	2557	2604	2651	2699	
68	2746	2793	2841	2888	2936	2983	3030	3078	3125	3172	
69	3220	3267	3314	3362	3409	3457	3504	3551	3599	3646	
9170	3693	3741	3788	3835	3883	3930	3978	4025	4072	4120	
71	4167	4214	4262	4309	4356	4404	4451	4498	4546	4593	
72	4640	4688	4735	4783	4830	4877	4925	4972	5019	5067	
73	5114	5161	5209	5256	5303	5351	5398	5445	5493	5540	
د { 47 د { 5 | 9 | 14 | 19 | 24 | 28 | 33 | 38 | 42 |											

No.	0	1	2	3	4	5	6	7	8	9	D
9266	9668923	8970	9017	9064	9110	9157	9204	9251	9298	9345	
67	9392	9438	9485	9532	9579	9626	9673	9720	9767	9813	
68	9860	9907	9954	0001	0048	0095	0141	0188	0235	0282	
69	9670329	0376	0423	0469	0516	0563	0610	0657	0704	0750	
9270	0797	0844	0891	0938	0985	1032	1078	1125	1172	1219	
71	1266	1313	1359	1406	1453	1500	1547	1594	1641	1687	
72	1734	1781	1828	1875	1922	1968	2015	2062	2109	2156	
73	2203	2249	2296	2343	2390	2437	2484	2530	2577	2624	
74	2671	2718	2765	2811	2858	2905	2952	2999	3046	3092	
75	3139	3186	3233	3280	3326	3373	3420	3467	3514	3561	
76	3607	3654	3701	3748	3795	3841	3888	3935	3982	4029	
77	4076	4122	4169	4216	4263	4310	4356	4403	4450	4497	
78	4544	4590	4637	4684	4731	4778	4825	4871	4918	4965	
79	5012	5059	5105	5152	5199	5246	5293	5339	5386	5433	
9280	5480	5527	5573	5620	5667	5714	5761	5807	5854	5901	
81	5948	5995	6041	6088	6135	6182	6228	6275	6322	6369	
82	6416	6462	6509	6556	6603	6650	6696	6743	6790	6837	
83	6884	6930	6977	7024	7071	7117	7164	7211	7258	7305	
84	7351	7398	7445	7492	7538	7585	7632	7679	7726	7772	
85	7819	7866	7913	7959	8006	8053	8100	8146	8193	8240	
86	8287	8334	8380	8427	8474	8521	8567	8614	8661	8708	
87	8754	8801	8848	8895	8942	8988	9035	9082	9129	9175	
88	9222	9269	9316	9362	9409	9456	9503	9549	9596	9643	
89	9690	9736	9783	9830	9877	9923	9970	0017	0064	0110	
9290	9680157	0204	0251	0297	0344	0391	0438	0484	0531	0578	
91	0625	0671	0718	0765	0812	0858	0905	0952	0999	1045	
92	1092	1139	1185	1232	1279	1326	1372	1419	1466	1513	
93	1559	1606	1653	1700	1746	1793	1840	1886	1933	1980	
94	2027	2073	2120	2167	2214	2260	2307	2354	2400	2447	
95	2494	2541	2587	2634	2681	2728	2774	2821	2868	2914	
96	2961	3008	3055	3101	3148	3195	3241	3288	3335	3382	
97	3428	3475	3522	3568	3615	3662	3709	3755	3802	3849	
98	3895	3942	3989	4036	4082	4129	4176	4222	4269	4316	
99	4362	4409	4456	4503	4549	4596	4643	4689	4736	4783	
9300	4829	4876	4923	4970	5016	5063	5110	5156	5203	5250	
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02	5763	5810	5857	5903	5950	5997	6043	6090	6137	6184	
03	6230	6277	6324	6370	6417	6464	6510	6557	6604	6650	
04	6697	6744	6790	6837	6884	6930	6977	7024	7070	7117	
05	7164	7210	7257	7304	7350	7397	7444	7490	7537	7584	
06	7630	7677	7724	7770	7817	7864	7910	7957	8004	8050	
07	8097	8144	8190	8237	8284	8330	8377	8424	8470	8517	
08	8564	8610	8657	8704	8750	8797	8843	8890	8937	8984	
09	9030	9077	9124	9170	9217	9264	9310	9357	9404	9450	
9310	9497	9543	9590	9637	9683	9730	9777	9823	9870	9917	
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14	1362	1409	1456	1502	1549	1595	1642	1689	1735	1782	
15	1829	1875	1922	1968	2015	2062	2108	2155	2202	2248	
16	2295	2341	2388	2435	2481	2528	2574	2621	2668	2714	
17	2761	2808	2854	2901	2947	2994	3041	3087	3134	3180	
18	3227	3274	3320	3367	3413	3460	3507	3553	3600	3647	
19	3693	3740	3786	3833	3880	3926	3973	4019	4066	4113	
9320	4159	4206	4252	4299	4346	4392	4439	4485	4532	4578	
21	4625	4672	4718	4765	4811	4858	4905	4951	4998	5044	
22	5091	5138	5184	5231	5277	5324	5371	5417	5464	5510	
23	5557	5603	5650	5697	5743	5790	5836	5883	5929	5976	
24	6023	6069	6116	6162	6209	6256	6302	6349	6395	6442	
25	6488	6535	6582	6628	6675	6721	6768	6814	6861	6908	
26	6954	7001	7047	7094	7140	7187	7234	7280	7327	7373	
27	7420	7466	7513	7559	7606	7653	7699	7746	7792	7839	
28	7885	7932	7978	8025	8072	8118	8165	8211	8258	8304	
29	8351	8397	8444	8491	8537	8584	8630	8677	8723	8770	
9330	8816	8863	8910	8956	9003	9049	9096	9142	9189	9235	
31	9282	9328	9375	9422	9468	9515	9561	9608	9654	9701	
32	9747	9794	9840	9887	9933	9980	0027	0073	0120	0166	
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34	0678	0724	0771	0818	0864	0911	0957	1004	1050	1097	
35	1143	1190	1236	1283	1329	1376	1422	1469	1515	1562	47
36	1608	1655	1701	1748	1794	1841	1888	1934	1981	2027	
37	2074	2120	2167	2213	2260	2306	2353	2399	2446	2492	
38	2539	2585	2632	2678	2725	2771	2818	2864	2911	2957	
39	3004	3050	3097	3143	3190	3236	3283	3329	3376	3422	
9340	3469	3515	3562	3608	3655	3701	3748	3794	3841	3887	
41	3934	3980	4027	4073	4120	4166	4213	4259	4306	4352	
42	4399	4445	4492	4538	4585	4631	4678	4724	4771	4817	
43	4863	4910	4956	5003	5049	5096	5142	5189	5235	5282	
44	5328	5375	5421	5468	5514	5561	5607	5654	5700	5747	
45	5793	5840	5886	5932	5979	6025	6072	6118	6165	6211	
46	6258	6304	6351	6397	6444	6490	6537	6583	6629	6676	
47	6722	6769	6815	6862	6908	6955	7001	7048	7094	7141	
48	7187	7233	7280	7326	7373	7419	7466	7512	7559	7605	
49	7652	7698	7745	7791	7837	7884	7930	7977	8023	8070	
9350	8116	8163	8209	8255	8302	8348	8395	8441	8488	8534	
51	8581	8627	8673	8720	8766	8813	8859	8906	8952	8999	
52	9045	9091	9138	9184	9231	9277	9324	9370	9416	9463	
53	9509	9556	9602	9649	9695	9742	9788	9834	9881	9927	
54	9974	0020	0067	0113	0159	0206	0252	0299	0345	0391	
55	9710438	0484	0531	0577	0624	0670	0716	0763	0809	0856	
56	0902	0949	0995	1041	1088	1134	1181	1227	1273	1320	
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A { 47 A { 5 9 14 19 24 28 33 38 42											

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9358	9711830	1877	1923	1970	2016	2062	2109	2155	2202	2248	
59	2294	2341	2387	2434	2480	2526	2573	2619	2666	2712	
9360	2758	2805	2851	2898	2944	2990	3037	3083	3130	3176	
61	3222	3269	3315	3362	3408	3454	3501	3547	3594	3640	
62	3686	3733	3779	3826	3872	3918	3965	4011	4057	4104	
63	4150	4197	4243	4289	4336	4382	4429	4475	4521	4568	
64	4614	4660	4707	4753	4800	4846	4892	4939	4985	5031	
65	5078	5124	5171	5217	5263	5310	5356	5402	5449	5495	
66	5542	5588	5634	5681	5727	5773	5820	5866	5912	5959	
67	6005	6052	6098	6144	6191	6237	6283	6330	6376	6422	
68	6469	6515	6562	6608	6654	6701	6747	6793	6840	6886	
69	6932	6979	7025	7071	7118	7164	7211	7257	7303	7350	
9370	7396	7442	7489	7535	7581	7628	7674	7720	7767	7813	
71	7859	7906	7952	7998	8045	8091	8137	8184	8230	8276	
72	8323	8369	8415	8462	8508	8554	8601	8647	8694	8740	
73	8786	8833	8879	8925	8972	9018	9064	9111	9157	9203	
74	9249	9296	9342	9388	9435	9481	9527	9574	9620	9666	
75	9713	9759	9805	9852	9898	9944	9991	0037	0083	0130	
76	9720176	0222	0269	0315	0361	0408	0454	0500	0547	0593	
77	0639	0685	0732	0778	0824	0871	0917	0963	1010	1056	
78	1102	1149	1195	1241	1288	1334	1380	1426	1473	1519	
79	1565	1612	1658	1704	1751	1797	1843	1889	1936	1982	
9380	2028	2075	2121	2167	2214	2260	2306	2352	2399	2445	
81	2491	2538	2584	2630	2677	2723	2769	2815	2862	2908	46
82	2954	3001	3047	3093	3139	3186	3232	3278	3325	3371	
83	3417	3463	3510	3556	3602	3649	3695	3741	3787	3834	
84	3880	3926	3973	4019	4065	4111	4158	4204	4250	4296	
85	4343	4389	4435	4482	4528	4574	4620	4667	4713	4759	
86	4805	4852	4898	4944	4991	5037	5083	5129	5176	5222	
87	5268	5314	5361	5407	5453	5500	5546	5592	5638	5685	
88	5731	5777	5823	5870	5916	5962	6008	6055	6101	6147	
89	6193	6240	6286	6332	6378	6425	6471	6517	6563	6610	
9390	6656	6702	6748	6795	6841	6887	6933	6980	7026	7072	
91	7118	7165	7211	7257	7303	7350	7396	7442	7488	7535	
92	7581	7627	7673	7720	7766	7812	7858	7905	7951	7997	
93	8043	8089	8136	8182	8228	8274	8321	8367	8413	8459	
94	8506	8552	8598	8644	8690	8737	8783	8829	8875	8922	
95	8968	9014	9060	9107	9153	9199	9245	9291	9338	9384	
96	9430	9476	9523	9569	9615	9661	9707	9754	9800	9846	
97	9892	9938	9985	0031	0077	0123	0170	0216	0262	0308	
98	9730354	0401	0447	0493	0539	0585	0632	0678	0724	0770	
99	0816	0863	0909	0955	1001	1048	1094	1140	1186	1232	
9400	1279	1325	1371	1417	1463	1510	1556	1602	1648	1694	
01	1741	1787	1833	1879	1925	1972	2018	2064	2110	2156	
02	2202	2249	2295	2341	2387	2433	2480	2526	2572	2618	
03	2664	2711	2757	2803	2849	2895	2941	2988	3034	3080	
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9404	9733126	3172	3219	3265	3311	3357	3403	3449	3496	3542	
05	3588	3634	3680	3727	3773	3819	3865	3911	3957	4004	
06	4050	4096	4142	4188	4234	4281	4327	4373	4419	4465	
07	4511	4558	4604	4650	4696	4742	4788	4835	4881	4927	
08	4973	5019	5065	5112	5158	5204	5250	5296	5342	5389	
09	5435	5481	5527	5573	5619	5665	5712	5758	5804	5850	
9410	5896	5942	5989	6035	6081	6127	6173	6219	6265	6312	
11	6358	6404	6450	6496	6542	6588	6635	6681	6727	6773	
12	6819	6865	6911	6958	7004	7050	7096	7142	7188	7234	
13	7281	7327	7373	7419	7465	7511	7557	7604	7650	7696	
14	7742	7788	7834	7880	7926	7973	8019	8065	8111	8157	
15	8203	8249	8295	8342	8388	8434	8480	8526	8572	8618	
16	8664	8711	8757	8803	8849	8895	8941	8987	9033	9080	
17	9126	9172	9218	9264	9310	9356	9402	9449	9495	9541	
18	9587	9633	9679	9725	9771	9817	9864	9910	9956	0002	
19	9740048	0094	0140	0186	0232	0279	0325	0371	0417	0463	
9420	0509	0555	0601	0647	0693	0740	0786	0832	0878	0924	
21	0970	1016	1062	1108	1154	1201	1247	1293	1339	1385	
22	1431	1477	1523	1569	1615	1661	1708	1754	1800	1846	
23	1892	1938	1984	2030	2076	2122	2168	2215	2261	2307	
24	2353	2399	2445	2491	2537	2583	2629	2675	2721	2768	
25	2814	2860	2906	2952	2998	3044	3090	3136	3182	3228	
26	3274	3320	3367	3413	3459	3505	3551	3597	3643	3689	
27	3735	3781	3827	3873	3919	3965	4011	4058	4104	4150	
28	4196	4242	4288	4334	4380	4426	4472	4518	4564	4610	
29	4656	4702	4748	4795	4841	4887	4933	4979	5025	5071	
9430	5117	5163	5209	5255	5301	5347	5393	5439	5485	5531	
31	5577	5623	5670	5716	5762	5808	5854	5900	5946	5992	
32	6038	6084	6130	6176	6222	6268	6314	6360	6406	6452	
33	6498	6544	6590	6636	6683	6729	6775	6821	6867	6913	
34	6959	7005	7051	7097	7143	7189	7235	7281	7327	7373	
35	7419	7465	7511	7557	7603	7649	7695	7741	7787	7833	
36	7879	7925	7971	8017	8063	8109	8155	8201	8248	8294	
37	8340	8386	8432	8478	8524	8570	8616	8662	8708	8754	
38	8800	8846	8892	8938	8984	9030	9076	9122	9168	9214	
39	9260	9306	9352	9398	9444	9490	9536	9582	9628	9674	
9440	9720	9766	9812	9858	9904	9950	9996	0042	0088	0134	
41	9750180	0226	0272	0318	0364	0410	0456	0502	0548	0594	
42	0640	0686	0732	0778	0824	0870	0916	0962	1008	1054	
43	1100	1146	1192	1238	1284	1330	1376	1422	1468	1514	
44	1560	1606	1652	1698	1744	1790	1836	1882	1928	1974	
45	2020	2066	2112	2158	2204	2250	2296	2342	2388	2434	
46	2479	2525	2571	2617	2663	2709	2755	2801	2847	2893	
47	2939	2985	3031	3077	3123	3169	3215	3261	3307	3353	
48	3399	3445	3491	3537	3583	3629	3675	3721	3767	3813	
49	3858	3904	3950	3996	4042	4088	4134	4180	4226	4272	

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No.	0	1	2	3	4	5	6	7	8	9	D.
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51	4778	4824	4870	4915	4961	5007	5053	5099	5145	5191	
52	5237	5283	5329	5375	5421	5467	5513	5559	5605	5651	
53	5697	5743	5788	5834	5880	5926	5972	6018	6064	6110	
54	6156	6202	6248	6294	6340	6386	6432	6478	6523	6569	
55	6615	6661	6707	6753	6799	6845	6891	6937	6983	7029	
56	7075	7121	7166	7212	7258	7304	7350	7396	7442	7488	
57	7534	7580	7626	7672	7718	7763	7809	7855	7901	7947	
58	7993	8039	8085	8131	8177	8223	8269	8315	8360	8406	
59	8452	8498	8544	8590	8636	8682	8728	8774	8820	8865	
9460	8911	8957	9003	9049	9095	9141	9187	9233	9279	9325	
61	9370	9416	9462	9508	9554	9600	9646	9692	9738	9784	
62	9829	9875	9921	9967	0013	0059	0105	0151	0197	0243	
63	9760288	0334	0380	0426	0472	0518	0564	0610	0656	0701	
64	0747	0793	0839	0885	0931	0977	1023	1069	1114	1160	
65	1206	1252	1298	1344	1390	1436	1481	1527	1573	1619	
66	1665	1711	1757	1803	1849	1894	1940	1986	2032	2078	
67	2124	2170	2216	2261	2307	2353	2399	2445	2491	2537	
68	2582	2628	2674	2720	2766	2812	2858	2904	2949	2995	
69	3041	3087	3133	3179	3225	3270	3316	3362	3408	3454	
9470	3500	3546	3592	3637	3683	3729	3775	3821	3867	3913	
71	3958	4004	4050	4096	4142	4188	4233	4279	4325	4371	
72	4417	4463	4509	4554	4600	4646	4692	4738	4784	4830	
73	4875	4921	4967	5013	5059	5105	5150	5196	5242	5288	
74	5334	5380	5425	5471	5517	5563	5609	5655	5701	5746	
75	5792	5838	5884	5930	5976	6021	6067	6113	6159	6205	
76	6251	6296	6342	6388	6434	6480	6525	6571	6617	6663	
77	6709	6755	6800	6846	6892	6938	6984	7030	7075	7121	
78	7167	7213	7259	7305	7350	7396	7442	7488	7534	7579	
79	7625	7671	7717	7763	7808	7854	7900	7946	7992	8038	
9480	8083	8129	8175	8221	8267	8312	8358	8404	8450	8496	
81	8541	8587	8633	8679	8725	8770	8816	8862	8908	8954	
82	9000	9045	9091	9137	9183	9229	9274	9320	9366	9412	
83	9458	9503	9549	9595	9641	9686	9732	9778	9824	9870	
84	9915	9961	0007	0053	0099	0144	0190	0236	0282	0328	
85	9770373	0419	0465	0511	0556	0602	0648	0694	0740	0785	
86	0831	0877	0923	0969	1014	1060	1106	1152	1197	1243	
87	1289	1335	1381	1426	1472	1518	1564	1609	1655	1701	
88	1747	1793	1838	1884	1930	1976	2021	2067	2113	2159	
89	2204	2250	2296	2342	2388	2433	2479	2525	2571	2616	
9490	2662	2708	2754	2799	2845	2891	2937	2982	3028	3074	
91	3120	3165	3211	3257	3303	3349	3394	3440	3486	3532	
92	3577	3623	3669	3715	3760	3806	3852	3898	3943	3989	
93	4035	4081	4126	4172	4218	4264	4309	4355	4401	4447	
94	4492	4538	4584	4630	4675	4721	4767	4812	4858	4904	
95	4950	4995	5041	5087	5133	5178	5224	5270	5316	5361	

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No.	0	1	2	3	4	5	6	7	8	9	D.
9496	9775407	5453	5499	5544	5590	5636	5681	5727	5773	5819	
97	5864	5910	5956	6002	6047	6093	6139	6184	6230	6276	
98	6322	6367	6413	6459	6505	6550	6596	6642	6687	6733	
99	6779	6825	6870	6916	6962	7007	7053	7099	7145	7190	
9500	7236	7282	7327	7373	7419	7465	7510	7556	7602	7647	
	7693	7739	7785	7830	7876	7922	7967	8013	8059	8105	
02	8150	8196	8242	8287	8333	8379	8424	8470	8516	8562	
03	8607	8653	8699	8744	8790	8836	8881	8927	8973	9019	
04	9064	9110	9156	9201	9247	9293	9338	9384	9430	9476	
05	9521	9567	9613	9658	9704	9750	9795	9841	9887	9932	
06	9978	0024	0069	0115	0161	0207	0252	0298	0344	0389	
07	9780435	0481	0526	0572	0618	0663	0709	0755	0800	0846	
08	0892	0937	0983	1029	1074	1120	1166	1211	1257	1303	
09	1348	1394	1440	1485	1531	1577	1622	1668	1714	1760	
9510	1805	1851	1897	1942	1988	2033	2079	2125	2170	2216	
11	2262	2307	2353	2399	2444	2490	2536	2581	2627	2673	
12	2718	2764	2810	2855	2901	2947	2992	3038	3084	3129	
13	3175	3221	3266	3312	3358	3403	3449	3495	3540	3586	
14	3631	3677	3723	3768	3814	3860	3905	3951	3997	4042	
15	4088	4134	4179	4225	4270	4316	4362	4407	4453	4499	
16	4544	4590	4636	4681	4727	4773	4818	4864	4909	4955	
17	5001	5046	5092	5138	5183	5229	5274	5320	5366	5411	
18	5457	5503	5548	5594	5640	5685	5731	5776	5822	5868	
19	5913	5959	6005	6050	6096	6141	6187	6233	6278	6324	
9520	6369	6415	6461	6506	6552	6598	6643	6689	6734	6780	
21	6826	6871	6917	6962	7008	7054	7099	7145	7191	7236	
22	7282	7327	7373	7419	7464	7510	7555	7601	7647	7692	
23	7738	7783	7829	7875	7920	7966	8011	8057	8103	8148	
24	8194	8239	8285	8331	8376	8422	8467	8513	8559	8604	
25	8650	8695	8741	8787	8832	8878	8923	8969	9015	9060	
26	9106	9151	9197	9243	9288	9334	9379	9425	9470	9516	
27	9562	9607	9653	9698	9744	9790	9835	9881	9926	9972	
28	9790017	0063	0109	0154	0200	0245	0291	0337	0382	0428	
29	0473	0519	0564	0610	0656	0701	0747	0792	0838	0883	
9530	0929	0975	1020	1066	1111	1157	1202	1248	1294	1339	
31	1385	1430	1476	1521	1567	1613	1658	1704	1749	1795	
32	1840	1886	1931	1977	2023	2068	2114	2159	2205	2250	
33	2296	2341	2387	2433	2478	2524	2569	2615	2660	2706	
34	2751	2797	2843	2888	2934	2979	3025	3070	3116	3161	
35	3207	3253	3298	3344	3389	3435	3480	3526	3571	3617	
36	3662	3708	3754	3799	3845	3890	3936	3981	4027	4072	
37	4118	4163	4209	4254	4300	4346	4391	4437	4482	4528	
38	4573	4619	4664	4710	4755	4801	4846	4892	4937	4983	
39	5028	5074	5120	5165	5211	5256	5302	5347	5393	5438	
9540	5484	5529	5575	5620	5666	5711	5757	5802	5848	5893	
41	5939	5984	6030	6076	6121	6167	6212	6258	6303	6349	
46 { 46 5 9 14 18 23 28 32 37 41 }											

No.	0	1	2	3	4	5	6	7	8	9	D.
9542	9796394	6440	6485	6531	6576	6622	6667	6719	6758	6804	
43	6849	6895	6940	6986	7031	7077	7122	7168	7213	7259	
44	7304	7350	7395	7441	7486	7532	7577	7623	7668	7714	
45	7759	7805	7850	7896	7941	7987	8032	8078	8123	8169	
46	8214	8260	8305	8351	8396	8442	8487	8533	8578	8624	
47	8669	8715	8760	8806	8851	8897	8942	8988	9033	9079	
48	9124	9170	9215	9261	9306	9352	9397	9442	9488	9533	
49	9579	9624	9670	9715	9761	9806	9852	9897	9943	9988	
9550	9800034	0079	0125	0170	0216	0261	0307	0352	0398	0443	
51	0488	0534	0579	0625	0670	0716	0761	0807	0852	0898	
52	0943	0989	1034	1080	1125	1170	1216	1261	1307	1352	
53	1398	1443	1489	1534	1580	1625	1671	1716	1761	1807	
54	1852	1898	1943	1989	2034	2080	2125	2171	2216	2261	
55	2307	2352	2398	2443	2489	2534	2580	2625	2671	2716	
56	2761	2807	2852	2898	2943	2989	3034	3080	3125	3170	
57	3216	3261	3307	3352	3398	3443	3489	3534	3579	3625	
58	3670	3716	3761	3807	3852	3897	3943	3988	4034	4079	
59	4125	4170	4215	4261	4306	4352	4397	4443	4488	4533	
9560	4579	4624	4670	4715	4761	4806	4851	4897	4942	4988	
61	5033	5079	5124	5169	5215	5260	5306	5351	5397	5442	
62	5487	5533	5578	5624	5669	5714	5760	5805	5851	5896	
63	5942	5987	6032	6078	6123	6169	6214	6259	6305	6350	
64	6396	6441	6486	6532	6577	6623	6668	6714	6759	6804	
65	6850	6895	6941	6986	7031	7077	7122	7168	7213	7258	
66	7304	7349	7395	7440	7485	7531	7576	7622	7667	7712	
67	7758	7803	7849	7894	7939	7985	8030	8075	8121	8166	
68	8212	8257	8302	8348	8393	8439	8484	8529	8575	8620	
69	8666	8711	8756	8802	8847	8892	8938	8983	9029	9074	
9570	9119	9165	9210	9256	9301	9346	9392	9437	9482	9528	
71	9573	9619	9664	9709	9755	9800	9845	9891	9936	9982	
72	9810027	0072	0118	0163	0208	0254	0299	0344	0390	0435	
73	0481	0526	0571	0617	0662	0707	0753	0798	0844	0889	
74	0934	0980	1025	1070	1116	1161	1206	1252	1297	1342	
75	1388	1433	1479	1524	1569	1615	1660	1705	1751	1796	
76	1841	1887	1932	1977	2023	2068	2113	2159	2204	2250	
77	2295	2340	2386	2431	2476	2522	2567	2612	2658	2703	
78	2748	2794	2839	2884	2930	2975	3020	3066	3111	3156	
79	3202	3247	3292	3338	3383	3428	3474	3519	3564	3610	
9580	3655	3700	3746	3791	3836	3882	3927	3972	4018	4063	
81	4108	4154	4199	4244	4290	4335	4380	4426	4471	4516	
82	4562	4607	4652	4698	4743	4788	4834	4879	4924	4970	
83	5015	5060	5106	5151	5196	5241	5287	5332	5377	5423	
84	5468	5513	5559	5604	5649	5695	5740	5785	5831	5876	
85	5921	5966	6012	6057	6102	6148	6193	6238	6284	6329	
86	6374	6420	6465	6510	6555	6601	6646	6691	6737	6782	
87	6827	6873	6918	6963	7008	7054	7099	7144	7190	7235	
45 { 5 9 14 18 23 27 32 36 41 }											

No.	0	1	2	3	4	5	6	7	8	9	D.
9588	9817280	7326	7371	7416	7461	7507	7552	7597	7643	7688	
89	7733	7778	7824	7869	7914	7960	8005	8050	8095	8141	
9590	8186	8231	8277	8322	8367	8412	8458	8503	8548	8594	
91	8639	8684	8729	8775	8820	8865	8911	8956	9001	9046	
92	9092	9137	9182	9228	9273	9318	9363	9409	9454	9499	
93	9544	9590	9635	9680	9726	9771	9816	9861	9907	9952	
94	9997	0042	0088	0133	0178	0223	0269	0314	0359	0405	
95	9820450	0495	0540	0586	0631	0676	0721	0767	0812	0857	
96	0902	0948	0993	1038	1083	1129	1174	1219	1264	1310	
97	1355	1400	1445	1491	1536	1581	1626	1672	1717	1762	
98	1807	1853	1898	1943	1988	2034	2079	2124	2169	2215	
99	2260	2305	2350	2396	2441	2486	2531	2577	2622	2667	
9600	2712	2758	2803	2848	2893	2939	2984	3029	3074	3119	
01	3165	3210	3255	3300	3346	3391	3436	3481	3527	3572	
02	3617	3662	3707	3753	3798	3843	3888	3934	3979	4024	
03	4069	4115	4160	4205	4250	4295	4341	4386	4431	4476	
04	4522	4567	4612	4657	4702	4748	4793	4838	4883	4928	
05	4974	5019	5064	5109	5155	5200	5245	5290	5335	5381	
06	5426	5471	5516	5561	5607	5652	5697	5742	5787	5833	
07	5878	5923	5968	6014	6059	6104	6149	6194	6240	6285	
08	6330	6375	6420	6466	6511	6556	6601	6646	6692	6737	
09	6782	6827	6872	6918	6963	7008	7053	7098	7143	7189	
9610	7234	7279	7324	7369	7415	7460	7505	7550	7595	7641	
11	7686	7731	7776	7821	7867	7912	7957	8002	8047	8092	45
12	8138	8183	8228	8273	8318	8364	8409	8454	8499	8544	
13	8589	8635	8680	8725	8770	8815	8860	8906	8951	8996	
14	9041	9086	9132	9177	9222	9267	9312	9357	9403	9448	
15	9493	9538	9583	9628	9674	9719	9764	9809	9854	9899	
16	9945	9990	0035	0080	0125	0170	0216	0261	0306	0351	
17	9830396	0441	0486	0532	0577	0622	0667	0712	0757	0803	
18	0848	0893	0938	0983	1028	1073	1119	1164	1209	1254	
19	1299	1344	1390	1435	1480	1525	1570	1615	1660	1706	
9620	1751	1796	1841	1886	1931	1976	2022	2067	2112	2157	
21	2202	2247	2292	2338	2383	2428	2473	2518	2563	2608	
22	2654	2699	2744	2789	2834	2879	2924	2969	3015	3060	
23	3105	3150	3195	3240	3285	3331	3376	3421	3466	3511	
24	3556	3601	3646	3692	3737	3782	3827	3872	3917	3962	
25	4007	4053	4098	4143	4188	4233	4278	4323	4368	4413	
26	4459	4504	4549	4594	4639	4684	4729	4774	4819	4865	
27	4910	4955	5000	5045	5090	5135	5180	5225	5271	5316	
28	5361	5406	5451	5496	5541	5586	5631	5677	5722	5767	
29	5812	5857	5902	5947	5992	6037	6082	6128	6173	6218	
9630	6263	6308	6353	6398	6443	6488	6533	6579	6624	6669	
31	6714	6759	6804	6849	6894	6939	6984	7029	7075	7120	
32	7165	7210	7255	7300	7345	7390	7435	7480	7525	7571	
33	7616	7661	7706	7751	7796	7841	7886	7931	7976	8021	
45 { 45 5 . 9 14 18 23 27 32 36 41 }											

No.	0	1	2	3	4	5	6	7	8	9	D.
9634	9838066	8111	8157	8202	8247	8292	8337	8382	8427	8472	
35	8517	8562	8607	8652	8697	8743	8788	8833	8878	8923	
36	8968	9013	9058	9103	9148	9193	9238	9283	9328	9374	
37	9419	9464	9509	9554	9599	9644	9689	9734	9779	9824	
38	9869	9914	9959	0004	0049	0095	0140	0185	0230	0275	
39	9840320	0365	0410	0455	0500	0545	0590	0635	0680	0725	
9640	0770	0815	0860	0905	0951	0996	1041	1086	1131	1176	
41	1221	1266	1311	1356	1401	1446	1491	1536	1581	1626	
42	1671	1716	1761	1806	1851	1896	1942	1987	2032	2077	
43	2122	2167	2212	2257	2302	2347	2392	2437	2482	2527	
44	2572	2617	2662	2707	2752	2797	2842	2887	2932	2977	
45	3022	3067	3112	3157	3202	3247	3292	3338	3383	3428	
46	3473	3518	3563	3608	3653	3698	3743	3788	3833	3878	
47	3923	3968	4013	4058	4103	4148	4193	4238	4283	4328	
48	4373	4418	4463	4508	4553	4598	4643	4688	4733	4778	
49	4823	4868	4913	4958	5003	5048	5093	5138	5183	5228	
9650	5273	5318	5363	5408	5453	5498	5543	5588	5633	5678	
51	5723	5768	5813	5858	5903	5948	5993	6038	6083	6128	
52	6173	6218	6263	6308	6353	6398	6443	6488	6533	6578	
53	6623	6668	6713	6758	6803	6848	6893	6938	6983	7028	
54	7073	7118	7163	7208	7253	7298	7343	7388	7433	7478	
55	7523	7568	7613	7658	7703	7748	7793	7838	7883	7928	
56	7973	8018	8063	8107	8152	8197	8242	8287	8332	8377	
57	8422	8467	8512	8557	8602	8647	8692	8737	8782	8827	
58	8872	8917	8962	9007	9052	9097	9142	9187	9232	9277	
59	9322	9367	9412	9457	9502	9546	9591	9636	9681	9726	
9660	9771	9816	9861	9906	9951	9996	0041	0086	0131	0176	
61	9850221	0266	0311	0356	0401	0446	0491	0535	0580	0625	
62	0670	0715	0760	0805	0850	0895	0940	0985	1030	1075	
63	1120	1165	1210	1255	1300	1345	1389	1434	1479	1524	
64	1569	1614	1659	1704	1749	1794	1839	1884	1929	1974	
65	2019	2064	2108	2153	2198	2243	2288	2333	2378	2423	
66	2468	2513	2558	2603	2648	2693	2737	2782	2827	2872	
67	2917	2962	3007	3052	3097	3142	3187	3232	3277	3321	
68	3366	3411	3456	3501	3546	3591	3636	3681	3726	3771	
69	3816	3861	3905	3950	3995	4040	4085	4130	4175	4220	
9670	4265	4310	4355	4399	4444	4489	4534	4579	4624	4669	
71	4714	4759	4804	4849	4893	4938	4983	5028	5073	5118	
72	5163	5208	5253	5298	5342	5387	5432	5477	5522	5567	
73	5612	5657	5702	5747	5791	5836	5881	5926	5971	6016	
74	6061	6106	6151	6196	6240	6285	6330	6375	6420	6465	
75	6510	6555	6600	6644	6689	6734	6779	6824	6869	6914	
76	6959	7003	7048	7093	7138	7183	7228	7273	7318	7363	
77	7407	7452	7497	7542	7587	7632	7677	7722	7766	7811	
78	7856	7901	7946	7991	8036	8081	8125	8170	8215	8260	
79	8305	8350	8395	8440	8484	8529	8574	8619	8664	8709	
د	45	5	9	14	18	23	27	32	36	41	

No.	0	1	2	3	4	5	6	7	8	9	D.
9680	9858754	8798	8843	8888	8933	8978	9023	9068	9112	9157	
81	9202	9247	9292	9337	9382	9426	9471	9516	9561	9606	
82	9651	9696	9740	9785	9830	9875	9920	9965	0010	0054	
83	9960099	0144	0189	0234	0279	0324	0368	0413	0458	0503	
84	0548	0593	0637	0682	0727	0772	0817	0862	0907	0951	
85	0996	1041	1086	1131	1176	1220	1265	1310	1355	1400	
86	1445	1489	1534	1579	1624	1669	1714	1758	1803	1848	
87	1893	1938	1983	2027	2072	2117	2162	2207	2252	2296	
88	2341	2386	2431	2476	2521	2565	2610	2655	2700	2745	
89	2790	2834	2879	2924	2969	3014	3058	3103	3148	3193	
9690	3238	3283	3327	3372	3417	3462	3507	3551	3596	3641	
91	3686	3731	3776	3820	3865	3910	3955	4000	4044	4089	
92	4134	4179	4224	4268	4313	4358	4403	4448	4493	4537	
93	4582	4627	4672	4717	4761	4806	4851	4896	4941	4985	
94	5030	5075	5120	5165	5209	5254	5299	5344	5389	5433	
95	5478	5523	5568	5613	5657	5702	5747	5792	5836	5881	
96	5926	5971	6016	6060	6105	6150	6195	6240	6284	6329	
97	6374	6419	6464	6508	6553	6598	6643	6687	6732	6777	
98	6822	6867	6911	6956	7001	7046	7090	7135	7180	7225	
99	7270	7314	7359	7404	7449	7493	7538	7583	7628	7673	
9700	7717	7762	7807	7852	7896	7941	7986	8031	8076	8120	
01	8165	8210	8255	8299	8344	8389	8434	8478	8523	8568	
02	8613	8657	8702	8747	8792	8837	8881	8926	8971	9016	
03	9060	9105	9150	9195	9239	9284	9329	9374	9418	9463	
04	9508	9553	9597	9642	9687	9732	9776	9821	9866	9911	
05	9955	0000	0045	0090	0134	0179	0224	0269	0313	0358	
06	9870403	0448	0492	0537	0582	0627	0671	0716	0761	0806	
07	0850	0895	0940	0985	1029	1074	1119	1163	1208	1253	
08	1298	1342	1387	1432	1477	1521	1566	1611	1656	1700	
09	1745	1790	1834	1879	1924	1969	2013	2058	2103	2148	
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11	2640	2684	2729	2774	2818	2863	2908	2953	2997	3042	
12	3087	3131	3176	3221	3266	3310	3355	3400	3444	3489	
13	3534	3579	3623	3668	3713	3757	3802	3847	3892	3936	
14	3981	4026	4070	4115	4160	4205	4249	4294	4339	4383	
15	4438	4473	4517	4562	4607	4652	4696	4741	4786	4830	
16	4875	4920	4964	5009	5054	5099	5143	5188	5233	5277	
17	5322	5367	5411	5456	5501	5545	5590	5635	5680	5724	
18	5769	5814	5858	5903	5948	5992	6037	6082	6126	6171	
19	6216	6261	6305	6350	6395	6439	6484	6529	6573	6618	
9720	6663	6707	6752	6797	6841	6886	6931	6975	7020	7065	
21	7109	7154	7199	7243	7288	7333	7377	7422	7467	7511	
22	7556	7601	7646	7690	7735	7780	7824	7869	7914	7958	
23	8003	8048	8092	8137	8182	8226	8271	8316	8360	8405	
24	8450	8494	8539	8583	8628	8673	8717	8762	8807	8851	
25	8896	8941	8985	9030	9075	9119	9164	9209	9253	9298	

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28	9880236	0280	0325	0370	0414	0459	0503	0548	0593	0637	
29	0682	0727	0771	0816	0861	0905	0950	0994	1039	1084	
9730	1128	1173	1218	1262	1307	1352	1396	1441	1485	1530	
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38	4698	4742	4787	4831	4876	4921	4965	5010	5054	5099	
39	5144	5188	5233	5277	5322	5367	5411	5456	5500	5545	
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41	6035	6080	6125	6169	6214	6258	6303	6348	6392	6437	
42	6481	6526	6570	6615	6660	6704	6749	6793	6838	6882	
43	6927	6972	7016	7061	7105	7150	7194	7239	7284	7328	
44	7373	7417	7462	7506	7551	7596	7640	7685	7729	7774	
45	7818	7863	7908	7952	7997	8041	8086	8130	8175	8220	
46	8264	8309	8353	8398	8442	8487	8531	8576	8621	8665	
47	8710	8754	8799	8843	8888	8932	8977	9022	9066	9111	
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49	9601	9645	9690	9734	9779	9823	9868	9913	9957	0002	
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51	0492	0536	0581	0625	0670	0714	0759	0803	0848	0892	
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53	1382	1427	1471	1516	1560	1605	1649	1694	1738	1783	
54	1828	1872	1917	1961	2006	2050	2095	2139	2184	2228	
55	2273	2317	2362	2406	2451	2495	2540	2584	2629	2673	
56	2718	2762	2807	2851	2896	2940	2985	3030	3074	3119	
57	3163	3208	3252	3297	3341	3386	3430	3475	3519	3564	
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59	4053	4098	4142	4187	4231	4276	4320	4365	4409	4454	
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67	7612	7656	7701	7745	7790	7834	7879	7923	7968	8012	
68	8057	8101	8145	8190	8234	8279	8323	8368	8412	8457	
69	8501	8546	8590	8634	8679	8723	8768	8812	8857	8901	
9770	8946	8990	9035	9079	9123	9168	9212	9257	9301	9346	
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73	9900279	0323	0368	0412	0457	0501	0546	0590	0634	0679	
74	0723	0768	0812	0857	0901	0946	0990	1034	1079	1123	
75	1168	1212	1257	1301	1345	1390	1434	1479	1523	1568	
76	1612	1656	1701	1745	1790	1834	1878	1923	1967	2012	
77	2056	2101	2145	2189	2234	2278	2323	2367	2411	2456	
78	2500	2545	2589	2634	2678	2722	2767	2811	2856	2900	
79	2944	2989	3033	3078	3122	3167	3211	3255	3300	3344	
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81	3833	3877	3921	3966	4010	4055	4099	4143	4188	4232	
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83	4721	4765	4809	4854	4898	4942	4987	5031	5076	5120	
84	5164	5209	5253	5298	5342	5386	5431	5475	5520	5564	
85	5608	5653	5697	5741	5786	5830	5875	5919	5963	6008	
86	6052	6096	6141	6185	6230	6274	6318	6363	6407	6452	
87	6496	6540	6585	6629	6673	6718	6762	6806	6851	6895	
88	6940	6984	7028	7073	7117	7161	7206	7250	7295	7339	
89	7383	7428	7472	7516	7561	7605	7649	7694	7738	7783	
9790	7827	7871	7916	7960	8004	8049	8093	8137	8182	8226	
91	8271	8315	8359	8404	8448	8492	8537	8581	8625	8670	
92	8714	8758	8803	8847	8891	8936	8980	9025	9069	9113	
93	9158	9202	9246	9291	9335	9379	9424	9468	9512	9557	
94	9601	9645	9690	9734	9778	9823	9867	9911	9956	0000	
95	9910044	0089	0133	0177	0222	0266	0310	0355	0399	0443	
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97	0931	0975	1020	1064	1108	1153	1197	1241	1286	1330	
98	1374	1419	1463	1507	1552	1596	1640	1685	1729	1773	
99	1818	1862	1906	1951	1995	2039	2083	2128	2172	2216	
9800	2261	2305	2349	2394	2438	2482	2527	2571	2615	2660	
01	2704	2748	2793	2837	2881	2925	2970	3014	3058	3103	
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03	3590	3634	3679	3723	3767	3812	3856	3900	3944	3989	
04	4033	4077	4122	4166	4210	4255	4299	4343	4387	4432	
05	4476	4520	4565	4609	4653	4697	4742	4786	4830	4875	
06	4919	4963	5007	5052	5096	5140	5185	5229	5273	5317	
07	5362	5406	5450	5495	5539	5583	5627	5672	5716	5760	
08	5805	5849	5893	5937	5982	6026	6070	6115	6159	6203	
09	6247	6292	6336	6380	6424	6469	6513	6557	6602	6646	
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11	7133	7177	7221	7266	7310	7354	7398	7443	7487	7531	
12	7575	7620	7664	7708	7752	7797	7841	7885	7929	7974	
13	8018	8062	8107	8151	8195	8239	8284	8328	8372	8416	
14	8461	8505	8549	8593	8638	8682	8726	8770	8815	8859	
15	8903	8947	8992	9036	9080	9124	9169	9213	9257	9301	
16	9345	9390	9434	9478	9522	9567	9611	9655	9699	9744	
17	9788	9832	9876	9921	9965	0009	0053	0098	0142	0186	
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9820	1115	1159	1203	1248	1292	1336	1380	1424	1469	1513	
21	1557	1601	1646	1690	1734	1778	1822	1867	1911	1955	
22	1999	2044	2088	2132	2176	2220	2265	2309	2353	2397	
23	2441	2486	2530	2574	2618	2662	2707	2751	2795	2839	
24	2884	2928	2972	3016	3060	3105	3149	3193	3237	3281	
25	3326	3370	3414	3458	3502	3547	3591	3635	3679	3723	
26	3768	3812	3856	3900	3944	3989	4033	4077	4121	4165	
27	4210	4254	4298	4342	4386	4431	4475	4519	4563	4607	
28	4651	4696	4740	4784	4828	4872	4917	4961	5005	5049	
29	5093	5138	5182	5226	5270	5314	5358	5403	5447	5491	
9830	5535	5579	5624	5668	5712	5756	5800	5844	5889	5933	
31	5977	6021	6065	6109	6154	6198	6242	6286	6330	6375	
32	6419	6463	6507	6551	6595	6640	6684	6728	6772	6816	
33	6860	6905	6949	6993	7037	7081	7125	7170	7214	7258	
34	7302	7346	7390	7435	7479	7523	7567	7611	7655	7699	
35	7744	7788	7832	7876	7920	7964	8009	8053	8097	8141	
36	8185	8229	8274	8318	8362	8406	8450	8494	8538	8583	
37	8627	8671	8715	8759	8803	8847	8892	8936	8980	9024	
38	9068	9112	9156	9201	9245	9289	9333	9377	9421	9465	
39	9510	9554	9598	9642	9686	9730	9774	9819	9863	9907	
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41	9930392	0436	0481	0525	0569	0613	0657	0701	0745	0789	
42	0834	0878	0922	0966	1010	1054	1098	1142	1187	1231	
43	1275	1319	1363	1407	1451	1495	1540	1584	1628	1672	
44	1716	1760	1804	1848	1893	1937	1981	2025	2069	2113	
45	2157	2201	2245	2290	2334	2378	2422	2466	2510	2554	
46	2598	2642	2687	2731	2775	2819	2863	2907	2951	2995	
47	3039	3083	3128	3172	3216	3260	3304	3348	3392	3436	
48	3480	3524	3569	3613	3657	3701	3745	3789	3833	3877	
49	3921	3965	4010	4054	4098	4142	4186	4230	4274	4318	
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52	5244	5288	5332	5376	5420	5464	5509	5553	5597	5641	
53	5685	5729	5773	5817	5861	5905	5949	5993	6037	6082	
54	6126	6170	6214	6258	6302	6346	6390	6434	6478	6522	
55	6566	6610	6654	6698	6743	6787	6831	6875	6919	6963	
56	7007	7051	7095	7139	7183	7227	7271	7315	7359	7404	
57	7448	7492	7536	7580	7624	7668	7712	7756	7800	7844	
58	7888	7932	7976	8020	8064	8108	8152	8197	8241	8285	
59	8329	8373	8417	8461	8505	8549	8593	8637	8681	8725	
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61	9210	9254	9298	9342	9386	9430	9474	9518	9562	9606	
62	9650	9694	9738	9782	9826	9870	9914	9958	0002	0046	
63	9940090	0134	0178	0222	0266	0310	0355	0399	0443	0487	
<div> <div>44</div> <div>4</div> <div>9</div> <div>13</div> <div>18</div> <div>22</div> <div>26</div> <div>31</div> <div>35</div> <div>40</div> </div>											

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66	1411	1455	1499	1543	1587	1631	1675	1719	1763	1807	
67	1851	1895	1939	1983	2027	2071	2115	2159	2203	2247	
68	2291	2335	2379	2423	2467	2511	2555	2599	2643	2687	
69	2731	2775	2820	2864	2908	2952	2996	3040	3084	3128	
9870	3172	3216	3260	3304	3348	3392	3436	3480	3524	3568	
71	3612	3656	3700	3744	3788	3831	3875	3919	3963	4007	
72	4051	4095	4139	4183	4227	4271	4315	4359	4403	4447	
73	4491	4535	4579	4623	4667	4711	4755	4799	4843	4887	
74	4931	4975	5019	5063	5107	5151	5195	5239	5283	5327	
75	5371	5415	5459	5503	5547	5591	5635	5679	5723	5767	
76	5811	5855	5899	5943	5987	6031	6075	6119	6163	6207	
77	6251	6295	6338	6382	6426	6470	6514	6558	6602	6646	
78	6690	6734	6778	6822	6866	6910	6954	6998	7042	7086	
79	7130	7174	7218	7262	7306	7350	7394	7438	7482	7526	
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81	8009	8053	8097	8141	8185	8229	8273	8317	8361	8405	
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83	8888	8932	8976	9020	9064	9108	9152	9196	9239	9283	
84	9327	9371	9415	9459	9503	9547	9591	9635	9679	9723	
85	9767	9811	9855	9899	9942	9986	0030	0074	0118	0162	
86	9950206	0250	0294	0338	0382	0426	0470	0514	0557	0601	44
87	0645	0689	0733	0777	0821	0865	0909	0953	0997	1041	
88	1085	1128	1172	1216	1260	1304	1348	1392	1436	1480	
89	1524	1568	1612	1656	1699	1743	1787	1831	1875	1919	
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91	2402	2446	2490	2534	2578	2622	2666	2709	2753	2797	
92	2841	2885	2929	2973	3017	3061	3104	3148	3192	3236	
93	3280	3324	3368	3412	3456	3500	3543	3587	3631	3675	
94	3719	3763	3807	3851	3895	3939	3982	4026	4070	4114	
95	4158	4202	4246	4290	4334	4377	4421	4465	4509	4553	
96	4597	4641	4685	4729	4772	4816	4860	4904	4948	4992	
97	5036	5080	5123	5167	5211	5255	5299	5343	5387	5431	
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02	7229	7273	7317	7361	7405	7449	7492	7536	7580	7624	
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07	9423	9465	9509	9553	9597	9641	9685	9728	9772	9816	
08	9860	9904	9948	9991	0035	0079	0123	0167	0211	0254	
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A { 44 A { 4 9 13 18 22 26 31 35 40											

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13	2051	2095	2139	2182	2226	2270	2314	2358	2402	2445	
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15	2927	2971	3015	3059	3102	3146	3190	3234	3278	3321	
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17	3803	3847	3891	3935	3978	4022	4066	4110	4153	4197	
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26	7743	7786	7830	7874	7918	7961	8005	8049	8093	8136	
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51	8667	8711	8755	8798	8842	8885	8929	8973	9016	9060	
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53	9540	9584	9627	9671	9715	9758	9802	9845	9889	9933	
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84	3046	3089	3133	3176	3220	3263	3307	3350	3394	3437	
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94	7393	7437	7480	7524	7567	7611	7654	7698	7741	7785	
95	7828	7871	7915	7958	8002	8045	8089	8132	8176	8219	
96	8262	8306	8349	8393	8436	8480	8523	8567	8610	8653	
97	8697	8740	8784	8827	8871	8914	8958	9001	9044	9088	
98	9131	9175	9218	9262	9305	9349	9392	9435	9479	9523	
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43 4 9 13 17 22 26 30 34 39											
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5 7-1630080	291851	12-8373040	7-1630084	791814	12-8373036	10-0000005	5	10-0000000
6 7-2418771	009469	12-7681929	7-2418778	699470	12-7681923	10-0000007	6	10-0000000
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8 7-3698167	811894	12-6331843	7-3698169	511851	12-6331831	10-0000012	8	10-0000000
9 7-4179891	467574	12-5893104	7-4179896	467577	12-5893104	10-0000015	9	10-0000000
10 7-4587855	413996	12-5502745	7-4587873	413930	12-5502727	10-0000018	10	10-0000000
11 7-5034181	377894	12-4448819	7-5034203	377888	12-4448797	10-0000022	11	10-0000000
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13 7-5798064	321846	12-4323116	7-5798071	321851	12-4323085	10-0000031	13	10-0000000
14 7-6098430	299930	12-3901470	7-6098466	299935	12-3901434	10-0000036	14	10-0000000
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16 7-6697845	263989	12-3321555	7-6697892	263924	12-3321500	10-0000047	16	10-0000000
17 7-6943733	248233	12-3068967	7-6943786	248240	12-3068924	10-0000053	17	10-0000000
18 7-7169896	234890	12-2810034	7-7169906	234815	12-2809974	10-0000060	18	10-0000000
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21 7-7680427	202011	12-2140673	7-7680490	202039	12-2140492	10-0000081	21	10-0000000
22 7-7801438	193049	12-1935543	7-7801547	193057	12-1935433	10-0000089	22	10-0000000
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60 7-9429188	71779	11-7624147	7-9429254	71800	11-7624085	10-0000662	60	10-0000000
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60 Deg.

1 Deg.

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3	8-2543494	67036	11-7399376	8-2543494	67059	11-7398847	10-0000729	24	9-9999271	81
4	8-2584810	65736	11-7301190	8-2584810	65759	11-7300437	10-0000753	24	9-9999247	81
5	8-2625936	64500	11-7233864	8-2625936	64522	11-7233088	10-0000778	24	9-9999224	81
6	8-2666843	63300	11-7167566	8-2666843	63322	11-7166766	10-0000800	25	9-9999200	81
7	8-2707574	62133	11-7102266	8-2707574	62155	11-7101441	10-0000825	25	9-9999175	81
8	8-2748067	61000	11-7037933	8-2748067	61022	11-7037083	10-0000850	25	9-9999150	82
9	8-2788340	60001	11-6974540	8-2788340	60022	11-6973665	10-0000875	25	9-9999125	82
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11	8-2868286	58100	11-6850464	8-2868286	58121	11-6849338	10-0000926	27	9-9999074	82
12	8-2907969	57194	11-6789271	8-2907969	57215	11-6788279	10-0000953	26	9-9999049	82
13	8-2947456	56300	11-6728367	8-2947456	56321	11-6727387	10-0000979	27	9-9999023	82
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56	8-4462292	32836	11-4217796	8-4462292	32861	11-4216796	10-0002473	43	9-9997529	4
57	8-4493253	32621	11-4160485	8-4493253	32646	11-4159485	10-0002516	44	9-9997488	3
58	8-4524020	32421	11-4103174	8-4524020	32446	11-4102174	10-0002559	44	9-9997447	2
59	8-4554593	32236	11-4045863	8-4554593	32261	11-4044863	10-0002602	45	9-9997406	1
60	8-4584972	32066	11-3988552	8-4584972	32091	11-3987552	10-0002645	45	9-9997365	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

2d Dec.

1 Deg.

	Sine	Diff.	Secant	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	8-5428192	36026	11-4571808	8-5430838	36171	11-4569169	10-0002046	45	9-9997854	00
1	8-5449218	35730	11-4535782	8-5469809	35774	11-4533091	10-0002691	44	9-9997309	50
2	8-5469948	35438	11-4500032	8-5509833	35483	11-4497317	10-0003735	45	9-9997258	50
3	8-5490488	35150	11-4464614	8-5530166	35196	11-4461834	10-0004780	46	9-9997207	50
4	8-5510936	34868	11-4429404	8-5550802	34914	11-4426638	10-0005828	46	9-9997156	50
5	8-5531404	34580	11-4394490	8-5569876	34630	11-4391794	10-0006872	46	9-9997105	50
6	8-5551894	34316	11-4360006	8-5589212	34363	11-4357088	10-0007918	46	9-9997054	50
7	8-5572410	34047	11-4326260	8-5607275	34093	11-4322793	10-0008964	47	9-9997003	53
8	8-5592957	33782	11-4292643	8-5625138	33829	11-4288639	10-0010011	47	9-9996952	53
9	8-5613529	33521	11-4259261	8-5642619	33569	11-4254903	10-0011058	48	9-9996901	51
10	8-5634120	33263	11-4226240	8-5659760	33311	11-4221234	10-0012106	48	9-9996850	50
11	8-5654732	33010	11-4193477	8-5676677	33059	11-4187923	10-0013154	48	9-9996800	49
12	8-5675363	32761	11-4161007	8-5693461	32809	11-4154864	10-0014202	49	9-9996749	48
13	8-5696024	32515	11-4128306	8-5677945	32564	11-4122055	10-0015251	49	9-9996700	47
14	8-5697909	32274	11-4095791	8-5691039	32323	11-4089401	10-0016300	50	9-9996700	46
15	8-5699823	32034	11-4063517	8-5694232	32085	11-4067168	10-0017350	49	9-9996650	45
16	8-5701757	31800	11-4031683	8-56974917	31820	11-4035063	10-0018400	51	9-9996600	44
17	8-5703717	31569	11-3999683	8-5700767	31619	11-3993323	10-0019450	50	9-9996550	43
18	8-5705696	31340	11-3967514	8-5703966	31391	11-3961614	10-0020500	51	9-9996500	42
19	8-5707693	31115	11-3935574	8-5707077	31160	11-3935923	10-0021551	51	9-9996450	41
20	8-5709714	30894	11-3903859	8-5710043	30946	11-3909873	10-0022602	52	9-9996400	40
21	8-5711753	30675	11-3872375	8-5712989	30727	11-3883811	10-0023653	52	9-9996350	39
22	8-5713810	30459	11-3841090	8-5715916	30611	11-3857764	10-0024704	52	9-9996300	38
23	8-5715886	30247	11-3810631	8-5718827	30500	11-3831687	10-0025755	53	9-9996250	37
24	8-5717981	30037	11-3780394	8-5721727	30391	11-3775573	10-0026806	53	9-9996200	36
25	8-5720093	29831	11-3750347	8-5724618	29884	11-3749482	10-0027857	54	9-9996150	35
26	8-5722224	29627	11-3720416	8-5727502	29781	11-3723390	10-0028908	54	9-9996100	34
27	8-5724371	29426	11-3690689	8-5730383	29680	11-3697317	10-0029959	54	9-9996050	33
28	8-5726533	29227	11-3661163	8-5733262	29582	11-3675437	10-0031010	55	9-9996000	32
29	8-5728714	29032	11-3632236	8-5736145	29486	11-3653556	10-0032061	54	9-9995950	31
30	8-5730918	28838	11-3603304	8-5739031	29394	11-3631676	10-0033112	55	9-9995900	30
31	8-5733134	28648	11-3574366	8-5741922	29303	11-3609795	10-0034163	55	9-9995850	29
32	8-5735363	28460	11-3545518	8-5744828	29216	11-3587914	10-0035214	56	9-9995800	28
33	8-5737614	28274	11-3516728	8-5747744	29131	11-3566033	10-0036265	56	9-9995750	27
34	8-5739886	28091	11-3488004	8-5750675	29047	11-3544152	10-0037316	57	9-9995700	26
35	8-5742177	27910	11-3460083	8-5753622	28968	11-3522271	10-0038367	57	9-9995650	25
36	8-5744487	27731	11-3432963	8-5756580	28890	11-3500390	10-0039418	58	9-9995600	24
37	8-5746817	27555	11-3406258	8-5759559	28812	11-3478509	10-0040469	58	9-9995550	23
38	8-5749166	27381	11-3379977	8-5762559	28736	11-3456628	10-0041520	58	9-9995500	22
39	8-5751534	27209	11-3354116	8-5765570	28661	11-3434747	10-0042571	58	9-9995450	21
40	8-5753920	27039	11-3328677	8-5768602	28587	11-3412866	10-0043622	59	9-9995400	20
41	8-5756333	26872	11-3303660	8-5771655	28514	11-3390985	10-0044673	59	9-9995350	19
42	8-5758764	26708	11-3279063	8-5774728	28442	11-3369104	10-0045724	60	9-9995300	18
43	8-5761224	26548	11-3254886	8-5777821	28371	11-3347223	10-0046775	60	9-9995250	17
44	8-5763714	26391	11-3231129	8-5780934	28301	11-3325342	10-0047826	60	9-9995200	16
45	8-5766234	26237	11-3207792	8-5784067	28232	11-3303461	10-0048877	61	9-9995150	15
46	8-5768784	26086	11-3184875	8-5787220	28164	11-3281580	10-0049928	61	9-9995100	14
47	8-5771364	25937	11-3162408	8-5790393	28097	11-3259700	10-0050979	62	9-9995050	13
48	8-5773974	25791	11-3140351	8-5793586	28031	11-3237819	10-0052030	62	9-9995000	12
49	8-5776614	25647	11-3118704	8-5796799	27966	11-3215938	10-0053081	62	9-9994950	11
50	8-5779284	25505	11-3097467	8-5800032	27902	11-3194057	10-0054132	63	9-9994900	10
51	8-5781984	25365	11-3076630	8-5803285	27839	11-3172176	10-0055183	63	9-9994850	9
52	8-5784714	25227	11-3056203	8-5806558	27777	11-3150295	10-0056234	64	9-9994800	8
53	8-5787474	25091	11-3036186	8-5809841	27716	11-3128414	10-0057285	64	9-9994750	7
54	8-5790264	24957	11-3016569	8-5813144	27656	11-3106533	10-0058336	65	9-9994700	6
55	8-5793084	24825	11-3000000	8-5816467	27597	11-3084652	10-0059387	65	9-9994650	5
56	8-5795934	24695	11-2984583	8-5819810	27539	11-3062771	10-0060438	65	9-9994600	4
57	8-5798814	24567	11-2969316	8-5823173	27482	11-3040890	10-0061489	66	9-9994550	3
58	8-5801724	24441	11-2954203	8-5826556	27426	11-3019009	10-0062540	66	9-9994500	2
59	8-5804664	24317	11-2939246	8-5829959	27371	11-3000000	10-0063591	66	9-9994450	1
60	8-5807634	24195	11-2924443	8-5833382	27317	11-2980981	10-0064642	66	9-9994400	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cotang.	D.	Sine	

67 Deg.

3 Deg.

	Sine	Diff.	Comc.	Tang.	Diff.	Cotang.	Secant	D.	Comc.	
0	87188009	24038	11-2811998	87188009	24105	11-2818049	10-0006026	66	9-9994044	69
1	87189040	24006	11-2787950	87188063	23972	11-2781937	10-0006123	67	9-9993878	59
2	87190040	23978	11-2764055	87248035	23842	11-2757065	10-0006240	67	9-9993711	58
3	87191041	23946	11-2740279	87263677	23712	11-2734123	10-0006360	68	9-9993544	57
4	87192066	23916	11-2716634	87280669	23585	11-2710411	10-0006484	68	9-9993378	56
5	87193066	23880	11-2693118	87313174	23467	11-2686826	10-0006612	68	9-9993212	55
6	87194072	23843	11-2669728	87330631	23353	11-2663509	10-0006740	68	9-9993046	54
7	87195053	23810	11-2646466	87348964	23238	11-2640030	10-0006868	69	9-9992880	53
8	87196075	23766	11-2623325	87368317	23086	11-2616828	10-0006997	70	9-9992713	52
9	87197081	23705	11-2600300	87408258	22904	11-2593749	10-0007127	69	9-9992547	51
10	87198066	23744	11-2577414	87429829	22845	11-2570778	10-0007256	71	9-9992381	50
11	87199030	23655	11-2554640	87452067	22725	11-2547933	10-0007387	70	9-9992215	49
12	87200016	23630	11-2531985	87474792	22600	11-2525208	10-0007517	71	9-9992049	48
13	87201053	23420	11-2498447	87497400	22441	11-2500600	10-0007648	71	9-9991883	47
14	87202073	23305	11-2467027	87519808	22251	11-2468010	10-0007779	72	9-9991717	46
15	87203078	23191	11-2436422	87542969	22062	11-2437771	10-0007910	71	9-9991551	45
16	87204069	23077	11-2405313	87566431	21850	11-2405546	10-0008042	73	9-9991385	44
17	87205046	22966	11-2374054	87589681	21638	11-2373311	10-0008175	72	9-9991219	43
18	87206012	22854	11-2342680	87606670	21421	11-2341281	10-0008307	73	9-9991053	42
19	87207006	22748	11-2311634	87623667	21218	11-2310323	10-0008440	74	9-9990887	41
20	87208011	22636	11-2280489	87640243	21010	11-2280435	10-0008573	74	9-9990721	40
21	87209047	22528	11-2249325	87657417	20802	11-2249325	10-0008707	74	9-9990555	39
22	87210075	22422	11-2218172	87674577	20597	11-2204223	10-0008840	74	9-9990389	38
23	87211070	22317	11-2187030	87711274	20391	11-2187236	10-0008975	75	9-9990223	37
24	87212014	22212	11-2155980	87738603	20187	11-2155135	10-0009109	75	9-9990057	36
25	87213026	22108	11-2124774	87765902	20184	11-2124048	10-0009243	76	9-9989891	35
26	87214034	22006	11-2122636	87781136	20182	11-2121864	10-0009378	76	9-9989725	34
27	87215040	21904	11-2091560	87802210	20081	11-2107782	10-0009512	76	9-9989559	33
28	87216044	21804	11-2164729	87821199	20080	11-2127600	10-0009647	77	9-9989393	32
29	87217048	21705	11-2163032	87844079	20072	11-2155281	10-0009781	77	9-9989227	31
30	87218053	21606	11-2143247	87864861	20083	11-2135130	10-0009916	77	9-9989061	30
31	87219059	21508	11-2122641	87883544	20086	11-2114426	10-0010051	78	9-9988895	29
32	87220067	21411	11-2102133	87906130	20080	11-2003870	10-0010186	78	9-9988729	28
33	87221078	21316	11-2081729	87929690	20084	11-2073380	10-0010321	79	9-9988563	27
34	87222084	21220	11-2061406	87947014	20089	11-2052806	10-0010456	79	9-9988397	26
35	87223081	21127	11-2041186	87967313	20088	11-2032307	10-0010591	79	9-9988231	25
36	87224081	21033	11-2021039	87987519	20113	11-2012481	10-0010726	80	9-9988065	24
37	87225084	20941	11-2001026	88007638	20021	11-1992300	10-0010861	80	9-9987899	23
38	87226081	20849	11-1981088	88027653	19930	11-1972347	10-0011000	80	9-9987733	22
39	87227084	20756	11-1961336	88047683	19839	11-1952417	10-0011139	81	9-9987567	21
40	87228083	20663	11-1941477	88067422	19750	11-1932578	10-0011278	81	9-9987401	20
41	87229082	20569	11-1921908	88087172	19662	11-1912828	10-0011417	82	9-9987235	19
42	87230081	20476	11-1902598	88106834	19673	11-1893106	10-0011556	82	9-9987069	18
43	87231084	20384	11-1883538	88126407	19487	11-1873523	10-0011695	82	9-9986903	17
44	87232089	20317	11-1863532	88145894	19400	11-1854106	10-0011834	83	9-9986737	16
45	87233095	20239	11-1844015	88165384	19314	11-1834716	10-0011973	83	9-9986571	15
46	87234098	20162	11-1824763	88184808	19230	11-1815332	10-0012112	83	9-9986405	14
47	87235103	20082	11-1805637	88204268	19146	11-1796162	10-0012251	84	9-9986239	13
48	87236109	20002	11-1786678	88223664	19062	11-1777016	10-0012390	84	9-9986073	12
49	87237114	19926	11-1767806	88243046	18980	11-1757854	10-0012529	84	9-9985907	11
50	87238129	19851	11-1748701	88262426	18896	11-1738674	10-0012668	85	9-9985741	10
51	87239142	19778	11-1729886	88281792	18817	11-1719076	10-0012807	85	9-9985575	9
52	87240158	19693	11-1711156	88301141	18737	11-1700269	10-0012946	85	9-9985409	8
53	87241176	19617	11-1692604	88320478	18656	11-1681522	10-0013085	85	9-9985243	7
54	87242194	19543	11-1673334	88339813	18578	11-1662886	10-0013224	86	9-9985077	6
55	87243212	19462	11-1654439	88359147	18499	11-1644260	10-0013363	87	9-9984911	5
56	87244230	19383	11-1635031	88378481	18423	11-1625789	10-0013502	87	9-9984745	4
57	87245250	19297	11-1615806	88397813	18344	11-1607387	10-0013641	87	9-9984579	3
58	87246271	19210	11-1596439	88417145	18268	11-1589023	10-0013780	88	9-9984413	2
59	87247291	19124	11-1576989	88436478	18192	11-1570758	10-0013919	88	9-9984247	1
60	87248314	19039	11-1558416	88455812	18117	11-1552553	10-0014058	89	9-9984081	0
	Sine	Diff.	Secant	Cotang.	Diff.	Tang.	Comc.	D.	Sine	

4 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant		D.	Cosine	
0	8-843845	16089	11-1864188	8-8440437	18117	11-1833083	10-0010087	8	8-843845	85	
1	8-843874	17833	11-1864198	8-8440454	18043	11-1833448	10-0010081	86	8-843874	86	
2	8-843907	17805	11-1864203	8-8440471	17969	11-1833813	10-0010075	87	8-843907	87	
3	8-843940	17780	11-1864208	8-8440488	17895	11-1834178	10-0010069	88	8-843940	88	
4	8-843973	17753	11-1864213	8-8440505	17822	11-1834543	10-0010063	89	8-843973	89	
5	8-844006	17728	11-1864218	8-8440522	17748	11-1834908	10-0010057	90	8-844006	90	
6	8-844039	17703	11-1864223	8-8440539	17674	11-1835273	10-0010051	91	8-844039	91	
7	8-844072	17678	11-1864228	8-8440556	17600	11-1835638	10-0010045	92	8-844072	92	
8	8-844105	17653	11-1864233	8-8440573	17526	11-1836003	10-0010039	93	8-844105	93	
9	8-844138	17628	11-1864238	8-8440590	17452	11-1836368	10-0010033	94	8-844138	94	
10	8-844171	17603	11-1864243	8-8440607	17378	11-1836733	10-0010027	95	8-844171	95	
11	8-844204	17578	11-1864248	8-8440624	17304	11-1837098	10-0010021	96	8-844204	96	
12	8-844237	17553	11-1864253	8-8440641	17230	11-1837463	10-0010015	97	8-844237	97	
13	8-844270	17528	11-1864258	8-8440658	17156	11-1837828	10-0010009	98	8-844270	98	
14	8-844303	17503	11-1864263	8-8440675	17082	11-1838193	10-0010003	99	8-844303	99	
15	8-844336	17478	11-1864268	8-8440692	17008	11-1838558	10-0010000	00	8-844336	00	
16	8-844369	17453	11-1864273	8-8440709	16934	11-1838923	10-0010000	01	8-844369	01	
17	8-844402	17428	11-1864278	8-8440726	16860	11-1839288	10-0010000	02	8-844402	02	
18	8-844435	17403	11-1864283	8-8440743	16786	11-1839653	10-0010000	03	8-844435	03	
19	8-844468	17378	11-1864288	8-8440760	16712	11-1840018	10-0010000	04	8-844468	04	
20	8-844501	17353	11-1864293	8-8440777	16638	11-1840383	10-0010000	05	8-844501	05	
21	8-844534	17328	11-1864298	8-8440794	16564	11-1840748	10-0010000	06	8-844534	06	
22	8-844567	17303	11-1864303	8-8440811	16490	11-1841113	10-0010000	07	8-844567	07	
23	8-844600	17278	11-1864308	8-8440828	16416	11-1841478	10-0010000	08	8-844600	08	
24	8-844633	17253	11-1864313	8-8440845	16342	11-1841843	10-0010000	09	8-844633	09	
25	8-844666	17228	11-1864318	8-8440862	16268	11-1842208	10-0010000	10	8-844666	10	
26	8-844699	17203	11-1864323	8-8440879	16194	11-1842573	10-0010000	11	8-844699	11	
27	8-844732	17178	11-1864328	8-8440896	16120	11-1842938	10-0010000	12	8-844732	12	
28	8-844765	17153	11-1864333	8-8440913	16046	11-1843303	10-0010000	13	8-844765	13	
29	8-844798	17128	11-1864338	8-8440930	15972	11-1843668	10-0010000	14	8-844798	14	
30	8-844831	17103	11-1864343	8-8440947	15898	11-1844033	10-0010000	15	8-844831	15	
31	8-844864	17078	11-1864348	8-8440964	15824	11-1844398	10-0010000	16	8-844864	16	
32	8-844897	17053	11-1864353	8-8440981	15750	11-1844763	10-0010000	17	8-844897	17	
33	8-844930	17028	11-1864358	8-8441000	15676	11-1845128	10-0010000	18	8-844930	18	
34	8-844963	17003	11-1864363	8-8441017	15602	11-1845493	10-0010000	19	8-844963	19	
35	8-844996	16978	11-1864368	8-8441034	15528	11-1845858	10-0010000	20	8-844996	20	
36	8-845029	16953	11-1864373	8-8441051	15454	11-1846223	10-0010000	21	8-845029	21	
37	8-845062	16928	11-1864378	8-8441068	15380	11-1846588	10-0010000	22	8-845062	22	
38	8-845095	16903	11-1864383	8-8441085	15306	11-1846953	10-0010000	23	8-845095	23	
39	8-845128	16878	11-1864388	8-8441102	15232	11-1847318	10-0010000	24	8-845128	24	
40	8-845161	16853	11-1864393	8-8441119	15158	11-1847683	10-0010000	25	8-845161	25	
41	8-845194	16828	11-1864398	8-8441136	15084	11-1848048	10-0010000	26	8-845194	26	
42	8-845227	16803	11-1864403	8-8441153	15010	11-1848413	10-0010000	27	8-845227	27	
43	8-845260	16778	11-1864408	8-8441170	14936	11-1848778	10-0010000	28	8-845260	28	
44	8-845293	16753	11-1864413	8-8441187	14862	11-1849143	10-0010000	29	8-845293	29	
45	8-845326	16728	11-1864418	8-8441204	14788	11-1849508	10-0010000	30	8-845326	30	
46	8-845359	16703	11-1864423	8-8441221	14714	11-1849873	10-0010000	31	8-845359	31	
47	8-845392	16678	11-1864428	8-8441238	14640	11-1850238	10-0010000	32	8-845392	32	
48	8-845425	16653	11-1864433	8-8441255	14566	11-1850603	10-0010000	33	8-845425	33	
49	8-845458	16628	11-1864438	8-8441272	14492	11-1850968	10-0010000	34	8-845458	34	
50	8-845491	16603	11-1864443	8-8441289	14418	11-1851333	10-0010000	35	8-845491	35	
51	8-845524	16578	11-1864448	8-8441306	14344	11-1851698	10-0010000	36	8-845524	36	
52	8-845557	16553	11-1864453	8-8441323	14270	11-1852063	10-0010000	37	8-845557	37	
53	8-845590	16528	11-1864458	8-8441340	14196	11-1852428	10-0010000	38	8-845590	38	
54	8-845623	16503	11-1864463	8-8441357	14122	11-1852793	10-0010000	39	8-845623	39	
55	8-845656	16478	11-1864468	8-8441374	14048	11-1853158	10-0010000	40	8-845656	40	
56	8-845689	16453	11-1864473	8-8441391	13974	11-1853523	10-0010000	41	8-845689	41	
57	8-845722	16428	11-1864478	8-8441408	13900	11-1853888	10-0010000	42	8-845722	42	
58	8-845755	16403	11-1864483	8-8441425	13826	11-1854253	10-0010000	43	8-845755	43	
59	8-845788	16378	11-1864488	8-8441442	13752	11-1854618	10-0010000	44	8-845788	44	
60	8-845821	16353	11-1864493	8-8441459	13678	11-1854983	10-0010000	45	8-845821	45	
61	8-845854	16328	11-1864498	8-8441476	13604	11-1855348	10-0010000	46	8-845854	46	
62	8-845887	16303	11-1864503	8-8441493	13530	11-1855713	10-0010000	47	8-845887	47	
63	8-845920	16278	11-1864508	8-8441510	13456	11-1856078	10-0010000	48	8-845920	48	
64	8-845953	16253	11-1864513	8-8441527	13382	11-1856443	10-0010000	49	8-845953	49	
65	8-845986	16228	11-1864518	8-8441544	13308	11-1856808	10-0010000	50	8-845986	50	
66	8-846019	16203	11-1864523	8-8441561	13234	11-1857173	10-0010000	51	8-846019	51	
67	8-846052	16178	11-1864528	8-8441578	13160	11-1857538	10-0010000	52	8-846052	52	
68	8-846085	16153	11-1864533	8-8441595	13086	11-1857903	10-0010000	53	8-846085	53	
69	8-846118	16128	11-1864538	8-8441612	13012	11-1858268	10-0010000	54	8-846118	54	
70	8-846151	16103	11-1864543	8-8441629	12938	11-1858633	10-0010000	55	8-846151	55	
71	8-846184	16078	11-1864548	8-8441646	12864	11-1858998	10-0010000	56	8-846184	56	
72	8-846217	16053	11-1864553	8-8441663	12790	11-1859363	10-0010000	57	8-846217	57	
73	8-846250	16028	11-1864558	8-8441680	12716	11-1859728	10-0010000	58	8-846250	58	
74	8-846283	16003	11-1864563	8-8441697	12642	11-1860093	10-0010000	59	8-846283	59	
75	8-846316	15978	11-1864568	8-8441714	12568	11-1860458	10-0010000	60	8-846316	60	
76	8-846349	15953	11-1864573	8-8441731	12494	11-1860823	10-0010000	61	8-846349	61	
77	8-846382	15928	11-1864578	8-8441748	12420	11-1861188	10-0010000	62	8-846382	62	
78	8-846415	15903	11-1864583	8-8441765	12346	11-1861553	10-0010000	63	8-846415	63	
79	8-846448	15878	11-1864588	8-8441782	12272	11-1861918	10-0010000	64	8-846448	64	
80	8-846481	15853	11-1864593	8-8441799	12198	11-1862283	10-0010000	65	8-846481	65	
81	8-846514	15828	11-1864598	8-8441816	12124	11-1862648	10-0010000	66	8-846514	66	
82	8-846547	15803	11-1864603	8-8441833	12050	11-1863013	10-0010000	67	8-846547	67	
83	8-846580	15778	11-1864608	8-8441850	11976	11-1863378	10-0010000	68	8-846580	68	
84	8-846613	15753	11-1864613	8-8441867	11902	11-1863743	10-0010000	69	8-846613	69	
85	8-846646	15728	11-1864618	8-8441884	11828	11-1864108	10-0010000	70	8-846646	70	
86	8-846679	15703	11-1864623	8-8441901	11754	11-1864473	10-0010000	71	8-846679	71	
87	8-846712	15678	11-1864628	8-8441918	11680	11-1864838	10-0010000	72	8-846712	72	
88	8-846745	15653	11-1864633	8-8441935	11606	11-1865203	10-0010000	73	8-846745	73	
89	8-846778	15628	11-1864638	8-8441952	11532	11-1865568	10-0010000	74	8-846778	74	
90	8-846811	15603	11-1864643	8-8441969	11458	11-1865933	10-0010000	75	8-846811	75	
91	8-846844	15578	11-1864648	8-8441986	11384	11-1866298	10-0010000	76	8-846844	76	
92	8-846877	15553	11-1864653	8-8442003	11310	11-1866663	10-0010000	77	8-846877	77	
93</											

d Deg.

'	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	'
0	0-9449980	14410	11-0357040	8-9419618	14286	11-0358489	10-0016558	110	0-9453443	60
1	0-9417370	14387	11-0358294	8-9434044	14479	11-0359596	10-0016638	111	0-9453332	59
2	0-9431743	14380	11-0358227	8-9448523	14431	11-03591477	10-0016708	112	0-9453220	58
3	0-9446088	14379	11-0358357	8-9463054	14384	11-03587046	10-0016891	112	0-9453109	57
4	0-9460335	14378	11-0358485	8-9477538	14338	11-03582639	10-0017003	112	0-9452997	56
5	0-9474681	14378	11-0358613	8-9492076	14291	11-03578294	10-0017115	113	0-9452885	55
6	0-9488970	14378	11-0358741	8-9506617	14244	11-03573933	10-0017228	112	0-9452772	54
7	0-9503267	14386	11-0358869	8-9521157	14199	11-03569589	10-0017340	114	0-9452660	53
8	0-9517567	14390	11-0359004	8-9535698	14154	11-03565250	10-0017454	113	0-9452548	52
9	0-9531866	13995	11-0359130	8-9550239	14108	11-03560914	10-0017567	115	0-9452436	51
10	0-9546165	13949	11-0359256	8-9564779	14063	11-03556579	10-0017682	114	0-9452324	50
11	0-9560464	13903	11-0359382	8-9579320	14019	11-03552243	10-0017796	115	0-9452212	49
12	0-9574763	13900	11-0359508	8-9593861	13974	11-03547908	10-0017911	115	0-9452100	48
13	0-9589062	13814	11-0359634	8-9608402	13929	11-03543572	10-0018026	116	0-9451988	47
14	0-9603361	13771	11-0359760	8-9622943	13884	11-03539237	10-0018141	116	0-9451876	46
15	0-9617660	13726	11-0359886	8-9637484	13839	11-03534901	10-0018257	117	0-9451764	45
16	0-9631959	13683	11-0359985	8-9652025	13794	11-03530566	10-0018372	117	0-9451652	44
17	0-9646258	13640	11-0360084	8-9666566	13749	11-03526231	10-0018488	116	0-9451540	43
18	0-9660557	13597	11-0360183	8-9681107	13704	11-03521896	10-0018603	118	0-9451428	42
19	0-9674856	13553	11-0360282	8-9695648	13659	11-03517561	10-0018719	117	0-9451316	41
20	0-9689155	13510	11-0360381	8-9710189	13614	11-03513226	10-0018834	118	0-9451204	40
21	0-9703454	13467	11-0360480	8-9724730	13569	11-03508891	10-0018950	119	0-9451092	39
22	0-9717753	13424	11-0360579	8-9739271	13524	11-03504556	10-0019065	119	0-9450980	38
23	0-9732052	13381	11-0360678	8-9753812	13479	11-03500221	10-0019181	119	0-9450868	37
24	0-9746351	13338	11-0360777	8-9768353	13434	11-03495886	10-0019296	120	0-9450756	36
25	0-9760650	13295	11-0360876	8-9782894	13389	11-03491551	10-0019412	120	0-9450644	35
26	0-9774949	13252	11-0360975	8-9797435	13344	11-03487216	10-0019527	121	0-9450532	34
27	0-9789248	13209	11-0361074	8-9811976	13299	11-03482881	10-0019643	121	0-9450420	33
28	0-9803547	13166	11-0361173	8-9826517	13254	11-03478546	10-0019758	121	0-9450308	32
29	0-9817846	13123	11-0361272	8-9841058	13209	11-03474211	10-0019874	121	0-9450196	31
30	0-9832145	13080	11-0361371	8-9855599	13164	11-03469876	10-0019989	122	0-9450084	30
31	0-9846444	13037	11-0361470	8-9870140	13119	11-03465541	10-0020105	122	0-9449972	29
32	0-9860743	12994	11-0361569	8-9884681	13074	11-03461206	10-0020220	122	0-9449860	28
33	0-9875042	12951	11-0361668	8-9899222	13029	11-03456871	10-0020336	123	0-9449748	27
34	0-9889341	12908	11-0361767	8-9913763	12984	11-03452536	10-0020451	123	0-9449636	26
35	0-9903640	12865	11-0361866	8-9928304	12939	11-03448201	10-0020567	124	0-9449524	25
36	0-9917939	12822	11-0361965	8-9942845	12894	11-03443866	10-0020682	124	0-9449412	24
37	0-9932238	12779	11-0362064	8-9957386	12849	11-03439531	10-0020798	124	0-9449300	23
38	0-9946537	12736	11-0362163	8-9971927	12804	11-03435196	10-0020913	125	0-9449188	22
39	0-9960836	12693	11-0362262	8-9986468	12759	11-03430861	10-0021029	125	0-9449076	21
40	0-9975135	12650	11-0362361	8-9999999	12714	11-03426526	10-0021144	125	0-9448964	20
41	0-9989434	12607	11-0362460	8-1000000	12669	11-03422191	10-0021260	126	0-9448852	19
42	0-9993733	12564	11-0362559	8-1000000	12624	11-03417856	10-0021375	126	0-9448740	18
43	0-9998032	12521	11-0362658	8-1000000	12579	11-03413521	10-0021491	127	0-9448628	17
44	0-9992331	12478	11-0362757	8-1000000	12534	11-03409186	10-0021606	127	0-9448516	16
45	0-9986630	12435	11-0362856	8-1000000	12489	11-03404851	10-0021722	127	0-9448404	15
46	0-9980929	12392	11-0362955	8-1000000	12444	11-03400516	10-0021837	128	0-9448292	14
47	0-9975228	12349	11-0363054	8-1000000	12399	11-03396181	10-0021953	128	0-9448180	13
48	0-9969527	12306	11-0363153	8-1000000	12354	11-03391846	10-0022068	128	0-9448068	12
49	0-9963826	12263	11-0363252	8-1000000	12309	11-03387511	10-0022184	129	0-9447956	11
50	0-9958125	12220	11-0363351	8-1000000	12264	11-03383176	10-0022299	129	0-9447844	10
51	0-9952424	12177	11-0363450	8-1000000	12219	11-03378841	10-0022415	129	0-9447732	9
52	0-9946723	12134	11-0363549	8-1000000	12174	11-03374506	10-0022530	130	0-9447620	8
53	0-9941022	12091	11-0363648	8-1000000	12129	11-03370171	10-0022646	130	0-9447508	7
54	0-9935321	12048	11-0363747	8-1000000	12084	11-03365836	10-0022761	130	0-9447396	6
55	0-9929620	12005	11-0363846	8-1000000	12039	11-03361501	10-0022877	131	0-9447284	5
56	0-9923919	11962	11-0363945	8-1000000	11994	11-03357166	10-0022992	131	0-9447172	4
57	0-9918218	11919	11-0364044	8-1000000	11949	11-03352831	10-0023108	132	0-9447060	3
58	0-9912517	11876	11-0364143	8-1000000	11904	11-03348496	10-0023223	132	0-9446948	2
59	0-9906816	11833	11-0364242	8-1000000	11859	11-03344161	10-0023339	133	0-9446836	1
60	0-9901115	11790	11-0364341	8-1000000	11814	11-03339826	10-0023454	133	0-9446724	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

6 Deg.

	Sine	Diff.	Co-sec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-0192346	12042	10-9807654	9-0216802	12136	10-0783198	10-0023467	139	9-9970143	00
1	9-0204348	11970	10-9795652	9-0228339	12103	10-0771692	10-0032099	134	9-9976011	50
2	9-0216311	11906	10-9783689	9-0240441	12070	10-0759559	10-0040823	134	9-9975877	58
3	9-0228254	11963	10-9771746	9-0252510	12038	10-0747490	10-0049437	134	9-9975743	57
4	9-0240157	11870	10-9759843	9-0264548	12004	10-0735452	10-0058491	134	9-9975609	56
5	9-0252027	11838	10-9747973	9-0276562	11972	10-0723448	10-0067425	135	9-9975475	55
6	9-0263865	11804	10-9736135	9-0288524	11940	10-0711476	10-0076460	135	9-9975340	54
7	9-0275699	11773	10-9724331	9-0300464	11909	10-0699536	10-0085495	136	9-9975205	53
8	9-0287442	11740	10-9712558	9-0312373	11876	10-0687627	10-0094531	136	9-9975069	52
9	9-0299182	11708	10-9700818	9-0324248	11844	10-0675731	10-0103567	136	9-9974933	51
10	9-0310899	11677	10-9689110	9-0336093	11813	10-0663897	10-0112603	137	9-9974797	50
11	9-0322597	11645	10-9677433	9-0347906	11782	10-0652094	10-0121639	137	9-9974660	49
12	9-0334312	11613	10-9665788	9-0359688	11751	10-0640312	10-0130674	137	9-9974523	48
13	9-0345982	11582	10-9654175	9-0371430	11720	10-0628501	10-0139710	138	9-9974386	47
14	9-0357607	11551	10-9642593	9-0383159	11689	10-0616784	10-0148745	138	9-9974249	46
15	9-0369248	11519	10-9631042	9-0394848	11658	10-0605152	10-0157780	139	9-9974110	45
16	9-0380907	11489	10-9619523	9-0406506	11628	10-0593594	10-0166829	139	9-9973971	44
17	9-0392586	11458	10-9608034	9-0418134	11597	10-0581866	10-0175887	140	9-9973833	43
18	9-0404324	11428	10-9596576	9-0429731	11568	10-0570209	10-0184936	139	9-9973695	42
19	9-0416032	11397	10-9585148	9-0441299	11537	10-0558701	10-0193984	140	9-9973556	41
20	9-0427820	11368	10-9573751	9-0452836	11507	10-0547164	10-0202986	141	9-9973414	40
21	9-0439571	11337	10-9562383	9-0464343	11478	10-0535657	10-0211977	141	9-9973273	39
22	9-0451354	11307	10-9551040	9-0475821	11449	10-0524179	10-0220968	141	9-9973132	38
23	9-0463091	11277	10-9539739	9-0487270	11419	10-0512730	10-0229970	142	9-9972991	37
24	9-0474838	11248	10-9528462	9-0498689	11389	10-0501311	10-0238961	142	9-9972850	36
25	9-0486576	11219	10-9517214	9-0510078	11361	10-0489822	10-0247929	143	9-9972708	35
26	9-0498305	11189	10-9505993	9-0521439	11332	10-0478351	10-0256894	143	9-9972567	34
27	9-0510014	11160	10-9494806	9-0532771	11303	10-0466829	10-0265867	143	9-9972425	33
28	9-0521734	11131	10-9483646	9-0544074	11275	10-0455396	10-0274830	144	9-9972283	32
29	9-0533454	11103	10-9472515	9-0555349	11246	10-0443945	10-0283793	144	9-9972141	31
30	9-0545173	11073	10-9461412	9-0566595	11218	10-0432495	10-0292756	144	9-9971999	30
31	9-0556891	11045	10-9450339	9-0577813	11189	10-0421087	10-0301719	145	9-9971856	29
32	9-0568606	11017	10-9439294	9-0589012	11162	10-0409698	10-0310682	145	9-9971714	28
33	9-0580323	11088	10-9428277	9-0600164	11133	10-0398308	10-0319644	145	9-9971571	27
34	9-0592038	11061	10-9417280	9-0611297	11106	10-0386870	10-0328606	146	9-9971429	26
35	9-0603752	11033	10-9406328	9-0622403	11079	10-0375467	10-0337568	146	9-9971286	25
36	9-0615464	11005	10-9395396	9-0633483	11051	10-0364061	10-0346529	146	9-9971143	24
37	9-0627176	11077	10-9384491	9-0644535	11023	10-0352667	10-0355487	147	9-9970999	23
38	9-0638886	11049	10-9373614	9-0655556	11007	10-0341244	10-0364444	147	9-9970855	22
39	9-0650593	11023	10-9362766	9-0666553	11009	10-0329833	10-0373398	147	9-9970711	21
40	9-0662307	11095	10-9351943	9-0677528	11043	10-0318478	10-0382348	148	9-9970567	20
41	9-0674022	11067	10-9341148	9-0688465	11016	10-0307133	10-0391298	149	9-9970423	19
42	9-0685739	11041	10-9330381	9-0699381	11089	10-0295799	10-0400248	149	9-9970279	18
43	9-0697450	11014	10-9319640	9-0710270	11063	10-0284477	10-0409196	149	9-9970135	17
44	9-0709167	11087	10-9308928	9-0721133	11036	10-0273197	10-0418143	149	9-9970001	16
45	9-0720881	11060	10-9298230	9-0731967	11010	10-0261931	10-0427089	150	9-9969857	15
46	9-0732592	11034	10-9287579	9-0742779	11084	10-0250672	10-0436035	150	9-9969713	14
47	9-0744305	11008	10-9276945	9-0753565	11058	10-0239427	10-0444981	150	9-9969569	13
48	9-0756013	11081	10-9266337	9-0764321	11032	10-0228197	10-0453927	151	9-9969425	12
49	9-0767724	11055	10-9255726	9-0775053	11071	10-0216947	10-0462873	151	9-9969281	11
50	9-0779439	11030	10-9245201	9-0785769	11081	10-0205699	10-0471819	152	9-9969137	10
51	9-0791152	11003	10-9234671	9-0796441	11055	10-0194465	10-0480765	152	9-9968993	9
52	9-0802863	11076	10-9224168	9-0807098	11030	10-0183219	10-0489711	153	9-9968849	8
53	9-0814576	11049	10-9213690	9-0817728	11003	10-0171974	10-0498657	153	9-9968705	7
54	9-0826287	11022	10-9203238	9-0828331	11080	10-0160729	10-0507603	153	9-9968561	6
55	9-0837998	11041	10-9192811	9-0838911	11055	10-0149484	10-0516549	153	9-9968417	5
56	9-0849709	11076	10-9182410	9-0849468	11030	10-0138239	10-0525495	154	9-9968273	4
57	9-0861420	11051	10-9172034	9-0860006	11003	10-0126994	10-0534441	154	9-9968129	3
58	9-0873131	11024	10-9161693	9-0870501	11080	10-0115749	10-0543387	155	9-9967985	2
59	9-0884842	11032	10-9151357	9-0881081	11055	10-0104504	10-0552333	155	9-9967841	1
60	9-0896553	11076	10-9141025	9-0891638	11031	10-0093259	10-0561279	155	9-9967697	0
	Co-sine	Diff.	Secant	Cotang.	Diff.	Tang.	Co-sec.	L.	Sine	

33 Deg.

7 Deg.

	Sine	Diff.	Co-sec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	0.0838945	10876	10.9141065	0.0891438	10431	10.9108632	10.0032903	165	0.9867807	60
1	0.0839281	10882	10.9130779	0.0891809	10406	10.9098131	10.0032848	166	0.9867385	59
2	0.0839617	10887	10.9120527	0.0892177	10383	10.9087723	10.0032794	167	0.9866963	58
3	0.0839953	10893	10.9110300	0.0892540	10360	10.9077340	10.0032740	168	0.9866541	57
4	0.0840289	10179	10.9100077	0.0892902	10335	10.9066960	10.0033116	167	0.9866119	56
5	0.0840625	10155	10.9089818	0.0893265	10312	10.9056585	10.0033273	157	0.9865697	55
6	0.0840961	10131	10.9079773	0.0893627	10288	10.9046333	10.0033430	158	0.9865275	54
7	0.0841297	10107	10.9069833	0.0893985	10264	10.9036085	10.0033588	159	0.9864853	53
8	0.0841633	10083	10.9059900	0.0894341	10241	10.9025871	10.0033746	159	0.9864431	52
9	0.0841969	10060	10.9049944	0.0894698	10218	10.9015640	10.0033904	150	0.9864009	51
10	0.0842305	10036	10.9039985	0.0895058	10194	10.9005422	10.0034063	150	0.9863587	50
11	0.0842641	10011	10.9029934	0.0895419	10171	10.8995208	10.0034222	150	0.9863165	49
12	0.0842977	9989	10.9019880	0.0895779	10148	10.8984996	10.0034381	150	0.9862743	48
13	0.0843313	9965	10.9009839	0.0896139	10124	10.8974780	10.0034541	150	0.9862321	47
14	0.0843649	9942	10.8999804	0.0896501	10101	10.8964563	10.0034701	151	0.9861899	46
15	0.0843985	9919	10.8989784	0.0896864	10078	10.8954340	10.0034862	151	0.9861477	45
16	0.0844321	9896	10.8979782	0.0897227	10055	10.8944120	10.0035023	151	0.9861055	44
17	0.0844657	9873	10.8969797	0.0897590	10032	10.8933903	10.0035184	151	0.9860633	43
18	0.0844993	9850	10.8959825	0.0897953	10009	10.8923689	10.0035345	152	0.9860211	42
19	0.0845329	9828	10.8949864	0.0898317	9986	10.8913476	10.0035507	153	0.9859789	41
20	0.0845665	9805	10.8939910	0.0898682	9963	10.8903266	10.0035669	153	0.9859367	40
21	0.0846001	9783	10.8929962	0.0899047	9940	10.8893058	10.0035831	153	0.9858945	39
22	0.0846337	9760	10.8919990	0.0899412	9917	10.8882852	10.0035993	153	0.9858523	38
23	0.0846673	9738	10.8909990	0.0899777	9894	10.8872648	10.0036155	154	0.9858101	37
24	0.0847009	9716	10.8900000	0.0899942	9871	10.8862446	10.0036317	154	0.9857679	36
25	0.0847345	9694	10.8890000	0.0900307	9848	10.8852246	10.0036479	155	0.9857257	35
26	0.0847681	9672	10.8880000	0.0900672	9825	10.8842048	10.0036641	155	0.9856835	34
27	0.0848017	9650	10.8870000	0.0901037	9802	10.8831852	10.0036803	155	0.9856413	33
28	0.0848353	9628	10.8860000	0.0901402	9779	10.8821658	10.0036965	156	0.9855991	32
29	0.0848689	9607	10.8850000	0.0901767	9756	10.8811466	10.0037127	156	0.9855569	31
30	0.0849025	9585	10.8840000	0.0902132	9733	10.8801276	10.0037289	157	0.9855147	30
31	0.0849361	9563	10.8830000	0.0902497	9710	10.8791086	10.0037451	157	0.9854725	29
32	0.0849697	9542	10.8820000	0.0902862	9687	10.8780896	10.0037613	157	0.9854303	28
33	0.0850033	9521	10.8810000	0.0903227	9664	10.8770708	10.0037775	158	0.9853881	27
34	0.0850369	9500	10.8800000	0.0903592	9641	10.8760520	10.0037937	158	0.9853459	26
35	0.0850705	9479	10.8790000	0.0903957	9618	10.8750332	10.0038099	159	0.9853037	25
36	0.0851041	9458	10.8780000	0.0904322	9595	10.8740144	10.0038261	159	0.9852615	24
37	0.0851377	9437	10.8770000	0.0904687	9572	10.8730000	10.0038423	159	0.9852193	23
38	0.0851713	9416	10.8760000	0.0905052	9549	10.8720000	10.0038585	159	0.9851771	22
39	0.0852049	9395	10.8750000	0.0905417	9526	10.8710000	10.0038747	160	0.9851349	21
40	0.0852385	9374	10.8740000	0.0905782	9503	10.8700000	10.0038909	160	0.9850927	20
41	0.0852721	9353	10.8730000	0.0906147	9480	10.8690000	10.0039071	160	0.9850505	19
42	0.0853057	9332	10.8720000	0.0906512	9457	10.8680000	10.0039233	161	0.9850083	18
43	0.0853393	9311	10.8710000	0.0906877	9434	10.8670000	10.0039395	161	0.9849661	17
44	0.0853729	9290	10.8700000	0.0907242	9411	10.8660000	10.0039557	162	0.9849239	16
45	0.0854065	9269	10.8690000	0.0907607	9388	10.8650000	10.0039719	162	0.9848817	15
46	0.0854401	9248	10.8680000	0.0907972	9365	10.8640000	10.0039881	163	0.9848395	14
47	0.0854737	9227	10.8670000	0.0908337	9342	10.8630000	10.0040043	163	0.9847973	13
48	0.0855073	9206	10.8660000	0.0908702	9319	10.8620000	10.0040205	164	0.9847551	12
49	0.0855409	9185	10.8650000	0.0909067	9296	10.8610000	10.0040367	164	0.9847129	11
50	0.0855745	9164	10.8640000	0.0909432	9273	10.8600000	10.0040529	165	0.9846707	10
51	0.0856081	9143	10.8630000	0.0909797	9250	10.8590000	10.0040691	165	0.9846285	9
52	0.0856417	9122	10.8620000	0.0910162	9227	10.8580000	10.0040853	166	0.9845863	8
53	0.0856753	9101	10.8610000	0.0910527	9204	10.8570000	10.0041015	166	0.9845441	7
54	0.0857089	9080	10.8600000	0.0910892	9181	10.8560000	10.0041177	167	0.9845019	6
55	0.0857425	9059	10.8590000	0.0911257	9158	10.8550000	10.0041339	167	0.9844597	5
56	0.0857761	9038	10.8580000	0.0911622	9135	10.8540000	10.0041501	168	0.9844175	4
57	0.0858097	9017	10.8570000	0.0911987	9112	10.8530000	10.0041663	168	0.9843753	3
58	0.0858433	9000	10.8560000	0.0912352	9089	10.8520000	10.0041825	169	0.9843331	2
59	0.0858769	8979	10.8550000	0.0912717	9066	10.8510000	10.0041987	169	0.9842909	1
60	0.0859105	8958	10.8540000	0.0913082	9043	10.8500000	10.0042149	170	0.9842487	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Co-sec.	D.	Sine	

22 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-1438433	8979	10-8564447	9-1678025	9187	10-8321875	10-0048472	178	9-9997588	60
1	9-1444532	8981	10-8555458	9-1467182	9139	10-8312818	10-0048360	179	9-9997550	61
2	9-1450631	8982	10-8546507	9-1463381	9130	10-8303769	10-0048258	179	9-9997512	62
3	9-1456730	8983	10-8537555	9-1508441	9102	10-8294718	10-0048157	178	9-9997474	63
4	9-1471328	8984	10-8528604	9-1514543	9084	10-8285667	10-0048055	180	9-9997436	64
5	9-1486926	8986	10-8519653	9-1520645	9065	10-8276616	10-0047954	179	9-9997398	65
6	9-1492524	8987	10-8510702	9-1526747	9047	10-8267565	10-0047852	180	9-9997360	66
7	9-1498122	8988	10-8501751	9-1532849	9030	10-8258514	10-0047751	181	9-9997322	67
8	9-1503720	8989	10-8492800	9-1538951	9011	10-8249463	10-0047650	180	9-9997284	68
9	9-1509318	8991	10-8483849	9-1545053	8993	10-8240412	10-0047549	181	9-9997246	69
10	9-1514916	8994	10-8474898	9-1551155	8975	10-8231361	10-0047448	182	9-9997208	70
11	9-1520514	8995	10-8465947	9-1557257	8958	10-8222310	10-0047347	182	9-9997170	71
12	9-1526112	8996	10-8456996	9-1563359	8940	10-8213259	10-0047246	183	9-9997132	72
13	9-1531710	8997	10-8448045	9-1569461	8923	10-8204208	10-0047145	183	9-9997094	73
14	9-1537308	8998	10-8439094	9-1575563	8905	10-8195157	10-0047044	183	9-9997056	74
15	9-1542906	8999	10-8430143	9-1581665	8888	10-8186106	10-0046943	184	9-9997018	75
16	9-1548504	9000	10-8421192	9-1587767	8870	10-8177055	10-0046842	184	9-9996980	76
17	9-1554102	9001	10-8412241	9-1593869	8852	10-8168004	10-0046741	184	9-9996942	77
18	9-1559700	9002	10-8403290	9-1599971	8835	10-8158953	10-0046640	185	9-9996904	78
19	9-1565298	9003	10-8394339	9-1606073	8818	10-8149902	10-0046539	185	9-9996866	79
20	9-1570896	9004	10-8385388	9-1612175	8801	10-8140851	10-0046438	185	9-9996828	80
21	9-1576494	9005	10-8376437	9-1618277	8784	10-8131800	10-0046337	185	9-9996790	81
22	9-1582092	9006	10-8367486	9-1624379	8767	10-8122749	10-0046236	186	9-9996752	82
23	9-1587690	9007	10-8358535	9-1630481	8750	10-8113698	10-0046135	186	9-9996714	83
24	9-1593288	9008	10-8349584	9-1636583	8733	10-8104647	10-0046034	187	9-9996676	84
25	9-1598886	9009	10-8340633	9-1642685	8717	10-8095596	10-0045933	187	9-9996638	85
26	9-1604484	9010	10-8331682	9-1648787	8700	10-8086545	10-0045832	188	9-9996600	86
27	9-1610082	9011	10-8322731	9-1654889	8683	10-8077494	10-0045731	188	9-9996562	87
28	9-1615680	9012	10-8313780	9-1660991	8666	10-8068443	10-0045630	188	9-9996524	88
29	9-1621278	9013	10-8304829	9-1667093	8650	10-8059392	10-0045529	189	9-9996486	89
30	9-1626876	9014	10-8295878	9-1673195	8634	10-8050341	10-0045428	189	9-9996448	90
31	9-1632474	9015	10-8286927	9-1679297	8618	10-8041290	10-0045327	190	9-9996410	91
32	9-1638072	9016	10-8277976	9-1685399	8601	10-8032239	10-0045226	190	9-9996372	92
33	9-1643670	9017	10-8269025	9-1691501	8585	10-8023188	10-0045125	190	9-9996334	93
34	9-1649268	9018	10-8260074	9-1697603	8569	10-8014137	10-0045024	191	9-9996296	94
35	9-1654866	9019	10-8251123	9-1703705	8553	10-8005086	10-0044923	191	9-9996258	95
36	9-1660464	9020	10-8242172	9-1709807	8537	10-7996035	10-0044822	191	9-9996220	96
37	9-1666062	9021	10-8233221	9-1715909	8521	10-7986984	10-0044721	192	9-9996182	97
38	9-1671660	9022	10-8224270	9-1722011	8505	10-7977933	10-0044620	192	9-9996144	98
39	9-1677258	9023	10-8215319	9-1728113	8489	10-7968882	10-0044519	192	9-9996106	99
40	9-1682856	9024	10-8206368	9-1734215	8473	10-7959831	10-0044418	193	9-9996068	00
41	9-1688454	9025	10-8197417	9-1740317	8457	10-7950780	10-0044317	193	9-9996030	01
42	9-1694052	9026	10-8188466	9-1746419	8441	10-7941729	10-0044216	194	9-9995992	02
43	9-1699650	9027	10-8179515	9-1752521	8425	10-7932678	10-0044115	194	9-9995954	03
44	9-1705248	9028	10-8170564	9-1758623	8409	10-7923627	10-0044014	194	9-9995916	04
45	9-1710846	9029	10-8161613	9-1764725	8393	10-7914576	10-0043913	195	9-9995878	05
46	9-1716444	9030	10-8152662	9-1770827	8377	10-7905525	10-0043812	195	9-9995840	06
47	9-1722042	9031	10-8143711	9-1776929	8361	10-7896474	10-0043711	195	9-9995802	07
48	9-1727640	9032	10-8134760	9-1783031	8345	10-7887423	10-0043610	196	9-9995764	08
49	9-1733238	9033	10-8125809	9-1789133	8329	10-7878372	10-0043509	196	9-9995726	09
50	9-1738836	9034	10-8116858	9-1795235	8313	10-7869321	10-0043408	196	9-9995688	10
51	9-1744434	9035	10-8107907	9-1801337	8297	10-7860270	10-0043307	197	9-9995650	11
52	9-1750032	9036	10-8098956	9-1807439	8281	10-7851219	10-0043206	197	9-9995612	12
53	9-1755630	9037	10-8090005	9-1813541	8265	10-7842168	10-0043105	197	9-9995574	13
54	9-1761228	9038	10-8081054	9-1819643	8249	10-7833117	10-0043004	198	9-9995536	14
55	9-1766826	9039	10-8072103	9-1825745	8233	10-7824066	10-0042903	198	9-9995498	15
56	9-1772424	9040	10-8063152	9-1831847	8217	10-7815015	10-0042802	198	9-9995460	16
57	9-1778022	9041	10-8054201	9-1837949	8201	10-7805964	10-0042701	199	9-9995422	17
58	9-1783620	9042	10-8045250	9-1844051	8185	10-7796913	10-0042600	199	9-9995384	18
59	9-1789218	9043	10-8036299	9-1850153	8169	10-7787862	10-0042499	199	9-9995346	19
60	9-1794816	9044	10-8027348	9-1856255	8153	10-7778811	10-0042398	200	9-9995308	20

9 Deg.

	Sine	Diff.	Cosec.	Tang.	(Diff.)	Cotang.	Secant	D.	Cosine	
0	9-1943284	7609	10-9056716	9-1187125	8169	10-8808875	10-1053801	200	9-9840129	60
1	9-1961298	7664	10-8048707	9-2008294	8155	10-7984706	10-0054001	201	9-9845939	59
2	9-1989247	7630	10-8040753	9-2013449	8139	10-7965551	10-0054502	201	9-9847798	58
3	9-1987186	7694	10-8032814	9-2021586	8126	10-7970412	10-0054403	201	9-9845597	57
4	9-1975110	7609	10-8024850	9-2029714	8111	10-7970286	10-0054504	202	9-9845506	56
5	9-1983019	7684	10-8016881	9-2037825	8097	10-7962175	10-0054806	202	9-9845194	55
6	9-1990013	7680	10-8008907	9-2045922	8082	10-7954178	10-0055008	203	9-9845929	54
7	9-1998793	7655	10-8001207	9-2054004	8068	10-7945906	10-0055211	202	9-9844788	53
8	9-2006538	7651	10-7993342	9-2062072	8054	10-7937728	10-0055413	204	9-9844587	52
9	9-2014309	7636	10-7985491	9-2070136	8039	10-7929674	10-0055617	203	9-9844383	51
10	9-2022243	7632	10-7977653	9-2078105	8026	10-7921635	10-0055820	203	9-9844180	50
11	9-2030167	7607	10-7969833	9-2086191	8012	10-7913809	10-0056023	204	9-9843975	49
12	9-2037974	7792	10-7962026	9-2094203	7997	10-7905797	10-0056229	205	9-9843771	48
13	9-2045766	7770	10-7954234	9-2102200	7984	10-7897800	10-0056434	205	9-9843566	47
14	9-2053545	7764	10-7946485	9-2110184	7964	10-7889816	10-0056639	205	9-9843361	46
15	9-2061309	7740	10-7938671	9-2118153	7950	10-7881847	10-0056844	206	9-9843156	45
16	9-2069069	7736	10-7930841	9-2126109	7942	10-7873891	10-0057050	207	9-9842950	44
17	9-2076795	7721	10-7923006	9-2134051	7929	10-7865949	10-0057257	207	9-9842743	43
18	9-2084516	7700	10-7915184	9-2141980	7914	10-7858020	10-0057463	207	9-9842537	42
19	9-2092224	7693	10-7907376	9-2149894	7901	10-7850106	10-0057670	208	9-9842330	41
20	9-2099917	7680	10-7899583	9-2157795	7889	10-7842205	10-0057878	208	9-9842124	40
21	9-2107607	7666	10-7891803	9-2165683	7873	10-7834317	10-0058086	209	9-9841919	39
22	9-2115293	7651	10-7884037	9-2173556	7861	10-7826444	10-0058294	209	9-9841706	38
23	9-2122914	7638	10-7876206	9-2181417	7847	10-7818583	10-0058502	209	9-9841498	37
24	9-2130562	7624	10-7868448	9-2189264	7833	10-7810736	10-0058711	210	9-9841289	36
25	9-2138176	7611	10-7860684	9-2197097	7820	10-7802903	10-0058921	209	9-9841079	35
26	9-2145787	7597	10-7852913	9-2204917	7807	10-7795103	10-0059130	211	9-9840870	34
27	9-2153394	7583	10-7845166	9-2212724	7794	10-7787270	10-0059341	210	9-9840661	33
28	9-2160967	7569	10-7837433	9-2220518	7780	10-7779482	10-0059553	211	9-9840453	32
29	9-2168518	7556	10-7829714	9-2228298	7767	10-7771702	10-0059762	211	9-9840246	31
30	9-2176048	7543	10-7822008	9-2236065	7754	10-7763935	10-0059973	212	9-9840039	30
31	9-2183565	7529	10-7814365	9-2243819	7742	10-7756181	10-0060185	212	9-9839831	29
32	9-2191064	7516	10-7806836	9-2251561	7729	10-7748430	10-0060397	212	9-9839623	28
33	9-2198560	7502	10-7800320	9-2259290	7715	10-7740711	10-0060609	213	9-9839415	27
34	9-2206048	7488	10-7792818	9-2267014	7702	10-7732996	10-0060822	213	9-9839207	26
35	9-2213571	7470	10-7785329	9-2274746	7689	10-7725294	10-0061035	213	9-9838995	25
36	9-2221047	7462	10-7777863	9-2282463	7676	10-7717603	10-0061248	214	9-9838782	24
37	9-2228469	7440	10-7770391	9-2290171	7664	10-7709929	10-0061462	214	9-9838568	23
38	9-2235836	7436	10-7762904	9-2297735	7651	10-7702263	10-0061676	215	9-9838354	22
39	9-2243245	7423	10-7755405	9-2305296	7638	10-7694614	10-0061891	215	9-9838140	21
40	9-2250591	7410	10-7747902	9-2312824	7626	10-7686976	10-0062106	215	9-9837924	20
41	9-2257928	7397	10-7740412	9-2320330	7612	10-7679330	10-0062321	216	9-9837709	19
42	9-2265255	7385	10-7732975	9-2327808	7601	10-7671738	10-0062537	216	9-9837493	18
43	9-2272571	7371	10-7725580	9-2335263	7589	10-7664137	10-0062753	217	9-9837277	17
44	9-2279884	7358	10-7718191	9-2342693	7576	10-7656549	10-0062970	217	9-9837061	16
45	9-2287193	7346	10-7710761	9-2350106	7563	10-7648974	10-0063187	217	9-9836843	15
46	9-2294495	7333	10-7703341	9-2357508	7550	10-7641411	10-0063404	218	9-9836626	14
47	9-2301791	7320	10-7695949	9-2364899	7539	10-7633861	10-0063622	218	9-9836408	13
48	9-2309083	7307	10-7688582	9-2372278	7528	10-7626322	10-0063840	218	9-9836190	12
49	9-2316371	7295	10-7681238	9-2379643	7514	10-7618797	10-0064058	219	9-9835972	11
50	9-2323654	7282	10-7673860	9-2387007	7501	10-7611285	10-0064277	219	9-9835753	10
51	9-2330932	7270	10-7666478	9-2394362	7490	10-7603792	10-0064496	220	9-9835534	9
52	9-2338204	7257	10-7659106	9-2401708	7477	10-7596308	10-0064715	220	9-9835315	8
53	9-2345479	7245	10-7651751	9-2409043	7465	10-7588815	10-0064934	221	9-9835096	7
54	9-2352748	7232	10-7644406	9-2416368	7453	10-7581330	10-0065156	220	9-9834874	6
55	9-2359997	7220	10-7637074	9-2423683	7440	10-7573857	10-0065377	221	9-9834654	5
56	9-2367246	7207	10-7629754	9-2431003	7429	10-7566457	10-0065597	222	9-9834433	4
57	9-2374488	7195	10-7622447	9-2438317	7417	10-7559029	10-0065819	222	9-9834211	3
58	9-2381725	7183	10-7615151	9-2445628	7405	10-7551611	10-0066041	222	9-9833989	2
59	9-2388958	7170	10-7607868	9-2452934	7394	10-7544206	10-0066263	223	9-9833767	1
60	9-2396192	7159	10-7600589	9-2460238	7381	10-7536812	10-0066485	223	9-9833545	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

10 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-2306709	7150	10-7063298	9-2463188	7381	10-7536812	10-0066465	222	9-9833535	80
1	9-2403861	7146	10-7061339	9-2470369	7370	10-7529041	10-0066701	224	9-9833299	80
2	9-2411007	7134	10-7059490	9-2477509	7358	10-7522061	10-0066932	223	9-9833068	80
3	9-2418141	7123	10-7057640	9-2484697	7346	10-7514703	10-0067155	224	9-9832845	80
4	9-2425264	7110	10-7055791	9-2492843	7333	10-7507357	10-0067379	225	9-9832619	80
5	9-2432374	7098	10-7053942	9-2499978	7321	10-7500023	10-0067604	225	9-9832396	80
6	9-2439472	7086	10-7052093	9-2507301	7311	10-7492689	10-0067829	225	9-9832171	80
7	9-2446558	7074	10-7050244	9-2514612	7300	10-7485388	10-0068054	226	9-9831946	54
8	9-2453638	7063	10-7048395	9-2521912	7288	10-7478088	10-0068280	226	9-9831720	52
9	9-2460715	7051	10-7046546	9-2529200	7277	10-7470780	10-0068506	226	9-9831494	50
10	9-2467746	7039	10-7044697	9-2536477	7265	10-7463482	10-0068732	227	9-9831268	50
11	9-2474764	7027	10-7042848	9-2543743	7254	10-7456182	10-0068958	227	9-9831041	48
12	9-2481811	7016	10-7041000	9-2551007	7243	10-7448883	10-0069186	227	9-9830814	48
13	9-2488827	7003	10-7039151	9-2558280	7232	10-7441583	10-0069413	228	9-9830587	47
14	9-2495830	6992	10-7037302	9-2565542	7220	10-7434283	10-0069641	228	9-9830360	46
15	9-2502822	6980	10-7035453	9-2572802	7209	10-7426983	10-0069868	229	9-9830133	45
16	9-2509803	6969	10-7033604	9-2580061	7198	10-7419683	10-0070096	229	9-9829906	44
17	9-2516772	6957	10-7031755	9-2587319	7187	10-7412383	10-0070322	229	9-9829679	43
18	9-2523729	6946	10-7029906	9-2594578	7176	10-7405083	10-0070549	230	9-9829452	42
19	9-2530675	6934	10-7028057	9-2601837	7164	10-7397783	10-0070776	230	9-9829225	41
20	9-2537609	6923	10-7026208	9-2609095	7154	10-7390483	10-0071002	231	9-9828998	40
21	9-2544532	6912	10-7024359	9-2616354	7142	10-7383183	10-0071229	231	9-9828771	39
22	9-2551444	6900	10-7022510	9-2623612	7132	10-7375883	10-0071456	231	9-9828544	38
23	9-2558354	6889	10-7020661	9-2630871	7120	10-7368583	10-0071683	232	9-9828317	37
24	9-2565264	6877	10-7018812	9-2638130	7110	10-7361283	10-0071910	232	9-9828090	36
25	9-2572174	6867	10-7016963	9-2645389	7099	10-7353983	10-0072137	232	9-9827863	35
26	9-2579077	6855	10-7015114	9-2652648	7088	10-7346683	10-0072364	233	9-9827636	34
27	9-2585982	6844	10-7013265	9-2659907	7077	10-7339383	10-0072591	233	9-9827409	33
28	9-2592887	6833	10-7011416	9-2667166	7066	10-7332083	10-0072818	234	9-9827182	32
29	9-2599792	6821	10-7009567	9-2674425	7055	10-7324783	10-0073045	234	9-9826955	31
30	9-2606697	6811	10-7007718	9-2681684	7044	10-7317483	10-0073272	235	9-9826728	30
31	9-2613602	6800	10-7005869	9-2688943	7033	10-7310183	10-0073499	235	9-9826501	29
32	9-2620507	6789	10-7004020	9-2696202	7022	10-7302883	10-0073726	235	9-9826274	28
33	9-2627412	6778	10-7002171	9-2703461	7011	10-7295583	10-0073953	236	9-9826047	27
34	9-2634317	6767	10-7000322	9-2710720	7000	10-7288283	10-0074180	236	9-9825820	26
35	9-2641222	6756	10-6998473	9-2717979	6989	10-7280983	10-0074407	236	9-9825593	25
36	9-2648127	6745	10-6996624	9-2725238	6978	10-7273683	10-0074634	237	9-9825366	24
37	9-2655032	6734	10-6994775	9-2732497	6967	10-7266383	10-0074861	237	9-9825139	23
38	9-2661937	6723	10-6992926	9-2739756	6956	10-7259083	10-0075088	237	9-9824912	22
39	9-2668842	6713	10-6991077	9-2747015	6945	10-7251783	10-0075315	238	9-9824685	21
40	9-2675747	6702	10-6989228	9-2754274	6934	10-7244483	10-0075542	238	9-9824458	20
41	9-2682652	6691	10-6987379	9-2761533	6923	10-7237183	10-0075769	239	9-9824231	19
42	9-2689557	6681	10-6985530	9-2768792	6912	10-7229883	10-0075996	239	9-9824004	18
43	9-2696462	6670	10-6983681	9-2776051	6901	10-7222583	10-0076223	240	9-9823777	17
44	9-2703367	6659	10-6981832	9-2783310	6890	10-7215283	10-0076450	240	9-9823550	16
45	9-2710272	6649	10-6979983	9-2790569	6880	10-7217578	10-0076684	241	9-9823323	15
46	9-2717177	6638	10-6978134	9-2797828	6869	10-7209878	10-0076917	241	9-9823096	14
47	9-2724082	6628	10-6976285	9-2805087	6858	10-7202578	10-0077151	242	9-9822869	13
48	9-2730987	6617	10-6974436	9-2812346	6848	10-7195273	10-0077384	242	9-9822642	12
49	9-2737892	6607	10-6972587	9-2819605	6837	10-7187973	10-0077617	243	9-9822415	11
50	9-2744797	6596	10-6970738	9-2826864	6826	10-7180673	10-0077850	243	9-9822188	10
51	9-2751702	6586	10-6968889	9-2834123	6815	10-7173373	10-0078083	244	9-9821961	9
52	9-2758607	6576	10-6967040	9-2841382	6804	10-7166073	10-0078316	244	9-9821734	8
53	9-2765512	6565	10-6965191	9-2848641	6793	10-7158773	10-0078549	245	9-9821507	7
54	9-2772417	6555	10-6963342	9-2855900	6782	10-7151473	10-0078782	245	9-9821280	6
55	9-2779322	6545	10-6961493	9-2863159	6771	10-7144173	10-0079015	246	9-9821053	5
56	9-2786227	6534	10-6959644	9-2870418	6760	10-7136873	10-0079248	246	9-9820826	4
57	9-2793132	6524	10-6957795	9-2877677	6750	10-7129573	10-0079481	247	9-9820599	3
58	9-2799937	6514	10-6955946	9-2884936	6739	10-7122273	10-0079714	247	9-9820372	2
59	9-2806842	6504	10-6954097	9-2892195	6728	10-7114973	10-0080047	248	9-9820145	1
60	9-2813747	6495	10-6952248	9-2899454	6717	10-7107673	10-0080280	248	9-9819918	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

79 Deg.

11 Deg.

	Sine	Diff.	Secant	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	92818698	6406	107194012	92885323	6740	107113477	100080534	246	92819468	60
1	92819483	6484	107187517	92885323	6730	107106737	100080720	246	92819889	59
2	92818857	6474	107181033	92885323	6720	107100007	100081026	247	92818874	58
3	92825441	6464	107174559	92885323	6711	107093267	100081573	247	92818727	57
4	92831905	6454	107168085	92885323	6702	107086526	100081520	247	92818480	56
5	92838369	6444	107161611	92885323	6691	107079784	100081767	247	92818233	55
6	92844803	6434	107155137	92885323	6683	107073185	100082014	249	92817986	54
7	92851237	6424	107148663	92885323	6672	107066440	100082263	248	92817737	53
8	92857671	6415	107142189	92885323	6664	107059698	100082511	249	92817489	52
9	92864105	6404	107135715	92885323	6653	107052954	100082760	249	92817240	51
10	92870539	6395	107129241	92885323	6645	107046211	100083009	250	92816991	50
11	92876973	6385	107122767	92885323	6635	107039466	100083259	249	92816741	49
12	92883407	6376	107116293	92885323	6626	107032721	100083508	251	92816492	48
13	92889841	6366	107109819	92885323	6617	107025976	100083758	251	92816243	47
14	92896275	6356	107103345	92885323	6607	107019231	100084007	251	92815994	46
15	92902709	6347	107096871	92885323	6598	107012486	100084257	251	92815745	45
16	92909143	6336	107090397	92885323	6588	107005741	100084507	252	92815496	44
17	92915577	6327	107083923	92885323	6579	107000000	100084754	252	92815247	43
18	92922011	6318	107077449	92885323	6571	106993255	100085001	253	92814998	42
19	92928445	6308	107070975	92885323	6560	106986510	100085249	253	92814749	41
20	92934879	6298	107064501	92885323	6552	106979765	100085497	253	92814500	40
21	92941313	6289	107058027	92885323	6543	106973020	100085745	254	92814251	39
22	92947747	6279	107051553	92885323	6534	106966275	100085993	254	92814002	38
23	92954181	6270	107045079	92885323	6524	106959530	100086241	255	92813753	37
24	92960615	6260	107038605	92885323	6516	106952785	100086489	255	92813504	36
25	92967049	6251	107032131	92885323	6506	106946040	100086737	255	92813255	35
26	92973483	6242	107025657	92885323	6498	106939295	100086985	256	92813006	34
27	92979917	6233	107019183	92885323	6488	106932550	100087233	256	92812757	33
28	92986351	6223	107012709	92885323	6480	106925805	100087481	256	92812508	32
29	92992785	6214	107006235	92885323	6471	106919060	100087729	257	92812259	31
30	92999219	6206	107000000	92885323	6462	106912315	100087977	257	92812010	30
31	93005653	6195	106993765	92885323	6453	106905570	100088225	258	92811761	29
32	93012087	6187	106987530	92885323	6444	106898825	100088473	258	92811512	28
33	93018521	6177	106981295	92885323	6436	106892080	100088721	259	92811263	27
34	93024955	6168	106975060	92885323	6427	106885335	100088969	259	92811014	26
35	93031389	6159	106968825	92885323	6418	106878590	100089217	259	92810765	25
36	93037823	6150	106962590	92885323	6409	106871845	100089465	259	92810516	24
37	93044257	6140	106956355	92885323	6401	106865100	100089713	260	92810267	23
38	93050691	6132	106950120	92885323	6392	106858355	100090000	260	92810018	22
39	93057125	6123	106943885	92885323	6383	106851610	100090287	260	92809769	21
40	93063559	6114	106937650	92885323	6375	106844865	100090574	261	92809520	20
41	93069993	6104	106931415	92885323	6366	106838120	100090861	262	92809271	19
42	93076427	6096	106925180	92885323	6358	106831375	100091148	262	92809022	18
43	93082861	6087	106918945	92885323	6349	106824630	100091435	262	92808773	17
44	93089295	6078	106912710	92885323	6341	106817885	100091722	262	92808524	16
45	93095729	6069	106906475	92885323	6332	106811140	100092009	263	92808275	15
46	93102163	6061	106900240	92885323	6323	106804395	100092296	264	92808026	14
47	93108597	6051	106894005	92885323	6316	106797650	100092583	263	92807777	13
48	93115031	6043	106887770	92885323	6307	106790905	100092870	265	92807528	12
49	93121465	6034	106881535	92885323	6298	106784160	100093157	264	92807279	11
50	93127899	6025	106875300	92885323	6290	106777415	100093444	265	92807030	10
51	93134333	6017	106869065	92885323	6282	106770670	100093731	265	92806781	9
52	93140767	6008	106862830	92885323	6273	106763925	100094018	265	92806532	8
53	93147201	6000	106856595	92885323	6265	106757180	100094305	266	92806283	7
54	93153635	5990	106850360	92885323	6257	106750435	100094592	266	92806034	6
55	93160069	5982	106844125	92885323	6248	106743690	100094879	267	92805785	5
56	93166503	5974	106837890	92885323	6241	106736945	100095166	267	92805536	4
57	93172937	5965	106831655	92885323	6232	106730200	100095453	268	92805287	3
58	93179371	5956	106825420	92885323	6224	106723455	100095740	268	92805038	2
59	93185805	5948	106819185	92885323	6216	106716710	100096027	268	92804789	1
60	93192239	5939	106812950	92885323	6208	106710000	100096314	269	92804540	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-3170780	5830	10-6891211	9-3374745	6308	10-6728255	10-0000000	200	9-9994044	80
1	9-3184798	5831	10-6891872	9-3380953	6309	10-6719047	10-0000000	200	9-9993775	80
2	9-3198829	5832	10-6892534	9-3387153	6310	10-6712947	10-0000000	200	9-9993506	80
3	9-3212861	5834	10-6893195	9-3393353	6313	10-6706846	10-0000000	200	9-9993237	80
4	9-3226893	5835	10-6797506	9-3399553	6316	10-6700745	10-0000000	200	9-9992968	80
5	9-3240925	5837	10-6797800	9-3405753	6318	10-6694644	10-0000000	200	9-9992699	80
6	9-3245957	5839	10-6798093	9-3411953	6319	10-6688543	10-0000000	200	9-9992430	80
7	9-3250989	5840	10-6798387	9-3418153	6319	10-6682442	10-0000000	200	9-9992161	80
8	9-3256021	5842	10-6798680	9-3424353	6314	10-6676341	10-0000000	200	9-9991892	80
9	9-3261053	5844	10-6798974	9-3430553	6313	10-6670240	10-0000000	200	9-9991623	80
10	9-3266085	5845	10-6799268	9-3436753	6313	10-6664139	10-0000000	200	9-9991354	80
11	9-3271117	5848	10-6799561	9-3442953	6312	10-6658038	10-0000000	200	9-9991085	80
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85	9-3599000	5487	10-6561398	9-3612937	5844	10-6286223	10-0161900	334	9-9813750	85
86	9-3599930	5488	10-6562378	9-3613881	5845	10-6285269	10-0162485	335	9-9812875	86
87	9-3600860	5489	10-6563357	9-3614825	5846	10-6284315	10-0163070	335	9-9812000	87
88	9-3601790	5490	10-6564337	9-3615769	5847	10-6283361	10-0163655	336	9-9811125	88
89	9-3602720	5491	10-6565316	9-3616713	5848	10-6282407	10-0164240	336	9-9810250	89
90	9-3603650	5492	10-6566296	9-3617657	5849	10-6281453	10-0164825	337	9-9809375	90
91	9-3604580	5493	10-6567275	9-3618601	5850	10-6280499	10-0165410	337	9-9808500	91
92	9-3605510	5494	10-6568255							

'	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	'
0	9 3836762	5063	10-0163848	9-3867711	5378	10-6033289	10-0133059	316	9-9866043	(8)
1	9 3841815	5068	10-0158185	9-3873080	5374	10-6028911	10-0131974	316	9-9860790	88
2	9 3846873	5051	10-0153127	9-3878463	5367	10 6021537	10-0131590	316	9-9856410	86
3	9 3851934	5045	10-0148070	9-3883830	5361	10-6016170	10-0131206	316	9-9851934	87
4	9 3856993	5039	10-0143031	9-3889191	5356	10-6010809	10-0130822	317	9-9847779	86
5	9 3862008	5033	10-0137993	9 3894547	5349	10-6005453	10-0130439	317	9-9843461	85
6	9 3867040	5027	10-0132950	9-3899896	5344	10 6000104	10-0130054	317	9-9839144	84
7	9 3872067	5020	10-0127933	9-4005240	5338	10-5994700	10-0130173	318	9-9834827	83
8	9 3877087	5014	10-0122913	9-4010578	5332	10 5989422	10-0130401	318	9-9830509	82
9	9 3882101	5008	10-0117890	9-4015910	5327	10-5984000	10-0130699	319	9-9826191	81
10	9 3887109	5002	10-0112861	9-4021237	5321	10-5978703	10-0131048	319	9-9821872	80
11	9 3892111	4995	10-0107869	9-4026558	5315	10-5973442	10-0131447	320	9-9817553	49
12	9 3897116	4990	10-0102804	9-4031873	5309	10-5968197	10-0131807	320	9-9813233	48
13	9 3902106	4983	10-0097904	9-4037182	5304	10 5962918	10-0132507	320	9-9808913	47
14	9 3907079	4978	10-0092921	9-4042481	5298	10-5957514	10-0132947	320	9-9804593	46
15	9 3912057	4971	10-0087943	9-4047784	5292	10-5952216	10-0133377	321	9-9800273	45
16	9 3917028	4965	10-0082973	9-4053076	5287	10 5946924	10-0133848	322	9-9795953	44
17	9 3921993	4959	10-0077907	9-4058363	5281	10-5941637	10-0134303	322	9-9791633	43
18	9 3926952	4953	10-0072848	9-4063644	5275	10-5936336	10-0134761	322	9-9787313	42
19	9 3931915	4947	10-0067805	9-4068919	5270	10-5931031	10-0135214	323	9-9782991	41
20	9 3936882	4942	10-0062810	9-4074189	5264	10-5925711	10-0135737	323	9-9778670	40
21	9 3941841	4935	10-0057806	9-4079453	5259	10-5920381	10-0136260	323	9-9774349	39
22	9 3946792	4929	10-0052827	9-4084712	5253	10-5915038	10-0136783	324	9-9769927	38
23	9 3951736	4923	10-0047832	9-4089965	5247	10-5910137	10-0137307	324	9-9765607	37
24	9 3956681	4918	10-0042810	9-4095212	5242	10-5904700	10-0137831	324	9-9761289	36
25	9 3961619	4911	10-0037830	9-4100454	5236	10-5899346	10-0138355	325	9-9756970	35
26	9 3966561	4905	10-0032830	9-4105690	5231	10-5893940	10-0138880	325	9-9752650	34
27	9 3971515	4900	10-0027835	9-4110921	5225	10-5888507	10-0139405	325	9-9748330	33
28	9 3976461	4894	10-0022793	9-4116156	5220	10-5883154	10-0139931	325	9-9743912	32
29	9 3981410	4887	10-0017891	9-4121396	5215	10-5877834	10-0140458	326	9-9739593	31
30	9 3986360	4882	10-0012404	9-4126631	5209	10-5872419	10-0140984	327	9-9735273	30
31	9 3991310	4876	10-0007122	9-4131870	5204	10-5866981	10-0141511	327	9-9730953	29
32	9 3996261	4871	10-0001846	9-4137103	5198	10-5861507	10-0142038	328	9-9726633	28
33	9 4001212	4864	10-0000373	9-4142341	5192	10-5856089	10-0142564	328	9-9722313	27
34	9 4006168	4859	10-0004511	9-4147583	5187	10-5850677	10-0143091	329	9-9717993	26
35	9 4011124	4853	10-0008652	9-4152820	5182	10-5845243	10-0143617	329	9-9713673	25
36	9 4016081	4847	10-0012800	9-4157782	5176	10-5840248	10-0144143	330	9-9709353	24
37	9 4021040	4841	10-0017932	9-4162728	5171	10-5835272	10-0144669	330	9-9705033	23
38	9 4026000	4835	10-0023066	9-4167690	5166	10-5830311	10-0145195	330	9-9700713	22
39	9 4030972	4830	10-0028276	9-4172653	5160	10-5825335	10-0145720	331	9-9696393	21
40	9 4035944	4824	10-0033446	9-4177625	5155	10-5820363	10-0146246	331	9-9692073	20
41	9 4040918	4818	10-0038622	9-4182580	5149	10-5815402	10-0146771	332	9-9687753	19
42	9 4045893	4813	10-0043804	9-4187539	5145	10-5810451	10-0147297	332	9-9683433	18
43	9 4050869	4807	10 0048981	9-4192507	5139	10-5805490	10-0147822	332	9-9679113	17
44	9 4055846	4801	10-0054164	9-4197501	5133	10-5800537	10-0148347	332	9-9674793	16
45	9 4060821	4796	10-0059343	9-4202446	5129	10-5795584	10-0148872	333	9-9670473	15
46	9 4065801	4790	10-0064527	9-4207476	5123	10-5790630	10-0149397	333	9-9666153	14
47	9 4070780	4784	10-0069707	9-4212496	5117	10-5785676	10-0149922	334	9-9661833	13
48	9 4075767	4779	10-0074883	9-4217515	5113	10-5780722	10-0150447	334	9-9657513	12
49	9 4080754	4773	10-0080064	9-4222530	5107	10-5775767	10-0150972	335	9-9653193	11
50	9 4085739	4767	10-0085241	9-4227545	5103	10-5770813	10-0151497	335	9-9648873	10
51	9 4090736	4762	10-0090424	9-4232560	5097	10-5765858	10-0152022	335	9-9644553	9
52	9 4095730	4756	10-0095602	9-4237565	5091	10-5760903	10-0152547	336	9-9640233	8
53	9 4100724	4751	10-0100781	9-4242580	5087	10-5755947	10-0153072	336	9-9635913	7
54	9 4105717	4745	10-0105962	9-4247595	5081	10-5750992	10-0153597	337	9-9631593	6
55	9 4110710	4739	10-0111140	9-4252609	5077	10-5746036	10-0154122	337	9-9627273	5
56	9 4115703	4734	10-0116324	9-4257624	5071	10-5741081	10-0154647	337	9-9622953	4
57	9 4120696	4729	10-0121507	9-4262639	5066	10-5736125	10-0155172	338	9-9618633	3
58	9 4125689	4723	10-0126689	9-4267654	5061	10-5731170	10-0155697	338	9-9614313	2
59	9 4130682	4717	10-0131873	9-4272669	5056	10-5726215	10-0156222	339	9-9610000	1
60	9 4135675	4712	10-0137056	9-4277684	5050	10-5721260	10-0156747	339	9-9605680	0
'	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	'

15 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9 4130069	4712	10 5871063	9 4289535	5050	10 5719475	10 0180568	339	9 9849438	60
1	9 4134674	4707	10 5865397	9 4293575	5045	10 5714425	10 0185001	339	9 9849090	59
2	9 4139301	4701	10 5859719	9 4297602	5040	10 5709375	10 0189434	340	9 9848740	58
3	9 4144468	4696	10 5853918	9 4299661	5035	10 5704325	10 0193867	339	9 9848392	57
4	9 4149778	4690	10 5848122	9 4300667	5030	10 5699275	10 0198300	341	9 9848044	56
5	9 4155466	4684	10 5842332	9 4301727	5026	10 5694225	10 0199990	340	9 9847740	55
6	9 4161458	4680	10 5836484	9 4301723	5020	10 5689175	10 0199990	341	9 9847400	54
7	9 4167839	4674	10 5830719	9 4301723	5016	10 5684125	10 0199991	342	9 9847060	53
8	9 4174706	4668	10 5824934	9 4301723	5010	10 5679075	10 0199991	342	9 9846717	52
9	9 4182174	4663	10 5819150	9 4301723	5005	10 5674025	10 0199991	342	9 9846375	51
10	9 4189707	4658	10 5813365	9 4300664	5001	10 5668975	10 0199991	343	9 9846033	50
11	9 4197405	4653	10 5807580	9 4299665	4995	10 5663925	10 0199991	343	9 9845690	49
12	9 4205148	4647	10 5801795	9 4298666	4991	10 5658875	10 0199991	343	9 9845347	48
13	9 4213076	4641	10 5796010	9 4297667	4985	10 5653825	10 0199991	344	9 9845004	47
14	9 4221196	4637	10 5790225	9 4296668	4981	10 5648775	10 0199991	344	9 9844660	46
15	9 4230074	4631	10 5784440	9 4295669	4976	10 5643725	10 0199991	345	9 9844316	45
16	9 4239104	4626	10 5778655	9 4294670	4971	10 5638675	10 0199991	345	9 9843971	44
17	9 4248330	4620	10 5772870	9 4293671	4966	10 5633625	10 0199991	345	9 9843626	43
18	9 4257800	4616	10 5767085	9 4292672	4961	10 5628575	10 0199991	346	9 9843281	42
19	9 4267456	4610	10 5761300	9 4291673	4956	10 5623525	10 0199991	346	9 9842936	41
20	9 4278317	4604	10 5755515	9 4290674	4951	10 5618475	10 0199991	347	9 9842591	40
21	9 4289430	4600	10 5749730	9 4289675	4947	10 5613425	10 0199991	347	9 9842246	39
22	9 4291330	4594	10 5743945	9 4288676	4941	10 5608375	10 0199991	347	9 9841901	38
23	9 4293934	4589	10 5738160	9 4287677	4937	10 5603325	10 0199991	348	9 9841556	37
24	9 4297163	4584	10 5732375	9 4286678	4932	10 5598275	10 0199991	348	9 9841211	36
25	9 4301147	4579	10 5726590	9 4285679	4927	10 5593225	10 0199991	349	9 9840866	35
26	9 4305931	4573	10 5720805	9 4284680	4923	10 5588175	10 0199991	349	9 9840521	34
27	9 4311529	4568	10 5715020	9 4283681	4917	10 5583125	10 0199991	349	9 9840176	33
28	9 4317987	4563	10 5709235	9 4282682	4913	10 5578075	10 0199991	350	9 9839831	32
29	9 4325443	4558	10 5703450	9 4281683	4908	10 5573025	10 0199991	350	9 9839486	31
30	9 4333901	4553	10 5697665	9 4280684	4903	10 5567975	10 0199991	350	9 9839141	30
31	9 4343351	4548	10 5691880	9 4279685	4899	10 5562925	10 0199991	351	9 9838796	29
32	9 4353801	4542	10 5686095	9 4278686	4894	10 5557875	10 0199991	352	9 9838451	28
33	9 4365351	4538	10 5680310	9 4277687	4889	10 5552825	10 0199991	353	9 9838106	27
34	9 4378001	4532	10 5674525	9 4276688	4884	10 5547775	10 0199991	353	9 9837761	26
35	9 4391701	4527	10 5668740	9 4275689	4880	10 5542725	10 0199991	352	9 9837416	25
36	9 4406451	4522	10 5662955	9 4274690	4875	10 5537675	10 0199991	353	9 9837071	24
37	9 4422301	4517	10 5657170	9 4273691	4871	10 5532625	10 0199991	353	9 9836726	23
38	9 4439251	4513	10 5651385	9 4272692	4866	10 5527575	10 0199991	354	9 9836381	22
39	9 4457301	4507	10 5645600	9 4271693	4861	10 5522525	10 0199991	354	9 9836036	21
40	9 4476451	4502	10 5639815	9 4270694	4857	10 5517475	10 0199991	355	9 9835691	20
41	9 4496701	4497	10 5634030	9 4269695	4852	10 5512425	10 0199991	355	9 9835346	19
42	9 4518151	4492	10 5628245	9 4268696	4847	10 5507375	10 0199991	355	9 9835001	18
43	9 4540801	4487	10 5622460	9 4267697	4842	10 5502325	10 0199991	356	9 9834656	17
44	9 4564651	4483	10 5616675	9 4266698	4838	10 5497275	10 0199991	356	9 9834311	16
45	9 4589701	4477	10 5610890	9 4265699	4834	10 5492225	10 0199991	356	9 9833966	15
46	9 4616051	4471	10 5605105	9 4264700	4829	10 5487175	10 0199991	357	9 9833621	14
47	9 4643701	4467	10 5600320	9 4263701	4825	10 5482125	10 0199991	357	9 9833276	13
48	9 4672651	4462	10 5594535	9 4262702	4819	10 5477075	10 0199991	358	9 9832931	12
49	9 4702901	4457	10 5588750	9 4261703	4815	10 5472025	10 0199991	358	9 9832586	11
50	9 4734451	4453	10 5582965	9 4260704	4811	10 5466975	10 0199991	358	9 9832241	10
51	9 4767301	4448	10 5577180	9 4259705	4806	10 5461925	10 0199991	359	9 9831896	9
52	9 4801451	4442	10 5571395	9 4258706	4801	10 5456875	10 0199991	360	9 9831551	8
53	9 4836901	4437	10 5565610	9 4257707	4797	10 5451825	10 0199991	360	9 9831206	7
54	9 4873651	4433	10 5559825	9 4256708	4793	10 5446775	10 0199991	361	9 9830861	6
55	9 4911701	4427	10 5554040	9 4255709	4788	10 5441725	10 0199991	361	9 9830516	5
56	9 4951051	4423	10 5548255	9 4254710	4784	10 5436675	10 0199991	361	9 9830171	4
57	9 4991701	4418	10 5542470	9 4253711	4779	10 5431625	10 0199991	361	9 9829826	3
58	9 5033651	4413	10 5536685	9 4252712	4774	10 5426575	10 0199991	362	9 9829481	2
59	9 5076901	4408	10 5530900	9 4251713	4770	10 5421525	10 0199991	362	9 9829136	1
60	9 5121451	4403	10 5525115	9 4250714	4766	10 5416475	10 0199991	362	9 9828791	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

74 Deg.

16 Deg.

	Sine	Diff.	Secc.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-4403381	4403	10-5556319	9-4574984	4761	10-5425036	10 0171864	302	9-9828168	80
1	9-4407704	4398	10-5552216	9-4579730	4761	10-5430270	10-0171846	303	9-9828054	79
2	9-4412182	4394	10-5548718	9-4584491	4757	10-5435509	10-0171830	303	9-9827991	78
3	9-4416576	4389	10-5545424	9-4589248	4753	10-5440752	10-0171817	304	9-9827939	77
4	9-4421005	4384	10-5542305	9-4594001	4748	10-5446000	10-0171803	304	9-9827884	76
5	9-4425340	4379	10-5539351	9-4598749	4743	10-5451251	10-0171790	304	9-9827830	75
6	9-4429728	4375	10-5536579	9-4603498	4740	10-5456508	10-0171776	305	9-9827776	74
7	9-4434103	4369	10-5533887	9-4608232	4735	10-5461768	10-0171762	305	9-9827721	73
8	9-4438472	4365	10-5531328	9-4612967	4730	10-5467033	10-0171749	306	9-9827666	72
9	9-4442857	4360	10 5528763	9-4617697	4726	10-5472303	10-0171736	306	9-9827611	71
10	9-4447197	4356	10-5526203	9-4622423	4722	10-5477577	10-0171722	306	9-9827556	70
11	9-4451553	4351	10 5523747	9-4627145	4718	10-5482855	10-0171709	307	9-9827501	69
12	9-4455904	4346	10-5521300	9-4631863	4713	10-5488137	10-0171696	307	9-9827446	68
13	9-4460250	4341	10-5518870	9-4636576	4709	10-5493424	10-0171683	308	9-9827391	67
14	9-4464591	4336	10-5516449	9-4641285	4705	10-5498715	10-0171669	308	9-9827336	66
15	9-4468927	4332	10-5514073	9-4645990	4700	10-5504010	10-0171656	309	9-9827281	65
16	9-4473259	4327	10-5511741	9-4650700	4696	10-5509310	10-0171643	309	9-9827226	64
17	9-4477586	4323	10 5509444	9-4655395	4692	10 5514614	10-0171630	370	9-9827171	63
18	9-4481908	4318	10-5507191	9-4660079	4687	10-5520022	10-0171616	309	9-9827116	62
19	9-4486227	4313	10-5504973	9-4664765	4683	10-5525325	10-0171603	370	9-9827061	61
20	9-4490540	4309	10-5502800	9-4669448	4679	10-5530623	10-0171590	371	9-9827006	60
21	9-4494849	4304	10-5500651	9-4674127	4675	10-5535923	10-0171577	370	9-9826951	59
22	9-4499153	4299	10-5498547	9-4678803	4671	10-5541226	10-0171564	372	9-9826896	58
23	9-4503452	4295	10-5496488	9-4683473	4668	10-5546527	10-0180021	371	9-9826841	57
24	9-4507747	4290	10-5494423	9-4688139	4663	10-5551831	10-0180002	372	9-9826786	56
25	9-4512037	4285	10-5492363	9-4692801	4659	10-5557130	10-0180074	373	9-9826731	55
26	9-4516322	4281	10-5490307	9-4697459	4655	10-5562431	10-0181137	373	9-9826676	54
27	9-4520611	4276	10-5488257	9-4702112	4650	10-5567738	10-0181160	373	9-9826621	53
28	9-4524879	4272	10-5486211	9-4706762	4646	10-5573023	10-0181183	373	9-9826566	52
29	9-4529151	4267	10-5484169	9-4711407	4641	10-5578303	10-0182226	374	9-9826511	51
30	9-4533418	4263	10-5482132	9-4716048	4637	10-5583583	10-0182263	375	9-9826456	50
31	9-4537691	4258	10-5480119	9-4720685	4633	10-5588861	10-0183306	375	9-9826401	49
32	9-4541959	4253	10-5478121	9-4725315	4629	10-5594138	10-0183349	375	9-9826346	48
33	9-4546192	4249	10-5476138	9-4729947	4625	10-5599413	10-0183392	376	9-9826291	47
34	9-4550441	4245	10-5474159	9-4734573	4620	10-5604688	10-0184433	376	9-9826236	46
35	9-4554686	4240	10-5472184	9-4739198	4616	10-5610008	10-0184476	377	9-9826181	45
36	9-4558926	4235	10-5470214	9-4743823	4613	10-5615282	10-0184519	377	9-9826126	44
37	9-4563161	4231	10-5468249	9-4748442	4608	10-5620559	10-0184562	377	9-9826071	43
38	9-4567398	4226	10-5466288	9-4753069	4604	10-5625837	10-0184605	377	9-9826016	42
39	9-4571618	4222	10-5464332	9-4757693	4600	10-5631117	10-0184648	378	9-9825961	41
40	9-4575840	4218	10-5462380	9-4762323	4596	10-5636397	10-0184691	379	9-9825906	40
41	9-4580058	4213	10-5460432	9-4766952	4592	10-5641677	10-0184734	379	9-9825851	39
42	9-4584271	4209	10-5458489	9-4771577	4588	10-5646959	10-0184777	379	9-9825796	38
43	9-4588480	4204	10-5456550	9-4776209	4583	10-5652241	10-0184820	380	9-9825741	37
44	9-4592694	4200	10-5454616	9-4780832	4580	10-5657523	10-0184863	380	9-9825686	36
45	9-4596894	4195	10-5452687	9-4785457	4576	10-5662803	10-0184906	380	9-9825631	35
46	9-4601079	4191	10-5450762	9-4790079	4571	10-5668083	10-0184949	381	9-9825576	34
47	9-4605270	4186	10-5448840	9-4794693	4568	10-5673363	10-0184992	381	9-9825521	33
48	9-4609456	4182	10-5446921	9-4799307	4564	10-5678643	10-0185035	382	9-9825466	32
49	9-4613638	4178	10-5445006	9-4803921	4560	10-5683923	10-0185078	382	9-9825411	31
50	9-4617816	4173	10-5443094	9-4808531	4555	10-5689203	10-0185121	383	9-9825356	30
51	9-4621989	4169	10-5441185	9-4813143	4552	10-5694483	10-0185164	383	9-9825301	29
52	9-4626158	4165	10-5439279	9-4817758	4548	10-5699763	10-0185207	383	9-9825246	28
53	9-4630323	4160	10-5437376	9-4822373	4544	10-5705043	10-0185250	384	9-9825191	27
54	9-4634483	4156	10-5435475	9-4826987	4540	10-5710323	10-0185293	384	9-9825136	26
55	9-4638636	4151	10-5433576	9-4831601	4536	10-5715603	10-0185336	384	9-9825081	25
56	9-4642790	4148	10-5431679	9-4836216	4532	10-5720883	10-0185379	385	9-9825026	24
57	9-4646938	4143	10-5429784	9-4840831	4528	10-5726163	10-0185422	385	9-9824971	23
58	9-4651081	4138	10-5427891	9-4845446	4524	10-5731443	10-0185465	385	9-9824916	22
59	9-4655219	4134	10-5425999	9-4850061	4520	10-5736723	10-0185508	386	9-9824861	21
60	9-4659353	4130	10-5424107	9-4854676	4517	10-5742003	10-0185551	386	9-9824806	20
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

17 Deg.

	Sine	Diff.	Secant	Tang.	Diff.	Cotang.	Secant	D.	Cosine
0	9-4283383	4130	10-5540047	9-4853390	4517	10-5140610	10-0194057	386	9-9806933
1	9-4283483	4129	10-5539517	9-4857907	4512	10-5142083	10-0194483	387	9-9806877
2	9-4283580	4128	10-5538991	9-4862410	4509	10-5143581	10-0194910	387	9-9806820
3	9-4283673	4128	10-5538467	9-4866908	4505	10-5145107	10-0195357	388	9-9806763
4	9-4283768	4127	10-5537944	9-4871433	4500	10-5146657	10-0195815	388	9-9806706
5	9-4283860	4109	10-5537404	9-4875933	4497	10-5148237	10-0196287	388	9-9806649
6	9-4283948	4104	10-5536891	9-4880430	4494	10-5149837	10-0196761	389	9-9806592
7	9-4284033	4100	10-5536377	9-4884924	4489	10-5151457	10-0197237	390	9-9806535
8	9-4284115	4096	10-5535863	9-4889413	4485	10-5153097	10-0197714	390	9-9806478
9	9-4284195	4092	10-5535351	9-4893898	4482	10-5154757	10-0198192	390	9-9806421
10	9-4284271	4087	10-5534839	9-4898380	4478	10-5156427	10-0198671	391	9-9806364
11	9-4284348	4083	10-5534329	9-4902858	4474	10-5158107	10-0199151	391	9-9806307
12	9-4284421	4079	10-5533819	9-4907338	4470	10-5159797	10-0199631	391	9-9806250
13	9-4284491	4075	10-5533310	9-4911802	4467	10-5161497	10-0200112	392	9-9806193
14	9-4284558	4071	10-5532802	9-4916269	4464	10-5163207	10-0200594	392	9-9806136
15	9-4284622	4066	10-5532294	9-4920731	4460	10-5164927	10-0201077	392	9-9806079
16	9-4284684	4063	10-5531787	9-4925190	4456	10-5166657	10-0201561	393	9-9806022
17	9-4284744	4058	10-5531281	9-4929646	4451	10-5168397	10-0202046	393	9-9805965
18	9-4284801	4054	10-5530776	9-4934107	4448	10-5170147	10-0202532	394	9-9805908
19	9-4284857	4049	10-5530272	9-4938565	4444	10-5171907	10-0203019	394	9-9805851
20	9-4284911	4046	10-5529769	9-4943020	4441	10-5173677	10-0203507	394	9-9805794
21	9-4284962	4042	10-5529267	9-4947473	4436	10-5175457	10-0203996	395	9-9805737
22	9-4285011	4037	10-5528766	9-4951923	4433	10-5177247	10-0204486	396	9-9805680
23	9-4285058	4033	10-5528266	9-4956370	4429	10-5179047	10-0204977	396	9-9805623
24	9-4285103	4030	10-5527767	9-4960815	4425	10-5180857	10-0205469	396	9-9805566
25	9-4285146	4025	10-5527269	9-4965258	4422	10-5182677	10-0205962	397	9-9805509
26	9-4285187	4021	10-5526772	9-4969699	4417	10-5184507	10-0206456	397	9-9805452
27	9-4285227	4016	10-5526276	9-4974138	4415	10-5186347	10-0206951	397	9-9805395
28	9-4285265	4013	10-5525781	9-4978574	4410	10-5188197	10-0207447	398	9-9805338
29	9-4285302	4009	10-5525287	9-4982998	4407	10-5190057	10-0207944	398	9-9805281
30	9-4285338	4005	10-5524794	9-4987420	4403	10-5191927	10-0208442	399	9-9805224
31	9-4285372	4000	10-5524302	9-4991839	4400	10-5193807	10-0208941	398	9-9805167
32	9-4285404	3997	10-5523811	9-4996256	4396	10-5195697	10-0209441	400	9-9805110
33	9-4285435	3992	10-5523321	9-5000672	4392	10-5197597	10-0209942	399	9-9805053
34	9-4285465	3988	10-5522832	9-5005087	4389	10-5199507	10-0210444	401	9-9805000
35	9-4285494	3984	10-5522344	9-5009499	4385	10-5201427	10-0210947	400	9-9804943
36	9-4285522	3981	10-5521857	9-5013909	4381	10-5203357	10-0211451	401	9-9804886
37	9-4285549	3976	10-5521372	9-5018317	4378	10-5205297	10-0211956	401	9-9804829
38	9-4285575	3973	10-5520888	9-5022724	4374	10-5207247	10-0212462	402	9-9804772
39	9-4285600	3968	10-5520405	9-5027129	4371	10-5209207	10-0212969	402	9-9804715
40	9-4285625	3965	10-5519923	9-5031532	4367	10-5211177	10-0213477	403	9-9804658
41	9-4285649	3960	10-5519442	9-5035935	4363	10-5213147	10-0213986	403	9-9804601
42	9-4285672	3957	10-5518962	9-5040338	4360	10-5215117	10-0214496	403	9-9804544
43	9-4285695	3952	10-5518483	9-5044739	4356	10-5217097	10-0215007	404	9-9804487
44	9-4285717	3949	10-5518005	9-5049139	4353	10-5219077	10-0215518	404	9-9804430
45	9-4285738	3944	10-5517528	9-5053538	4349	10-5221067	10-0216030	405	9-9804373
46	9-4285759	3941	10-5517052	9-5057936	4346	10-5223067	10-0216542	405	9-9804316
47	9-4285779	3937	10-5516577	9-5062333	4342	10-5225077	10-0217055	405	9-9804259
48	9-4285798	3933	10-5516103	9-5066729	4339	10-5227097	10-0217568	406	9-9804202
49	9-4285817	3929	10-5515630	9-5071125	4335	10-5229127	10-0218082	406	9-9804145
50	9-4285835	3925	10-5515158	9-5075550	4331	10-5231167	10-0218597	407	9-9804088
51	9-4285853	3921	10-5514687	9-5079973	4328	10-5233217	10-0219112	407	9-9804031
52	9-4285870	3917	10-5514217	9-5084396	4325	10-5235267	10-0219628	407	9-9803974
53	9-4285887	3914	10-5513748	9-5088818	4321	10-5237327	10-0220144	408	9-9803917
54	9-4285903	3909	10-5513280	9-5093239	4317	10-5239397	10-0220661	408	9-9803860
55	9-4285919	3905	10-5512813	9-5097659	4315	10-5241477	10-0221178	409	9-9803803
56	9-4285934	3902	10-5512348	9-5102078	4310	10-5243567	10-0221696	409	9-9803746
57	9-4285949	3898	10-5511884	9-5106696	4307	10-5245667	10-0222214	410	9-9803689
58	9-4285963	3894	10-5511421	9-5111313	4304	10-5247777	10-0222733	409	9-9803632
59	9-4285977	3890	10-5510960	9-5115929	4300	10-5249897	10-0223253	411	9-9803575
60	9-4285990	3886	10-5510500	9-5120544	4297	10-5252027	10-0223773	410	9-9803518
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine

in Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-4808834	3806	10-5100176	9-5117780	4297	10-4882840	10-0217037	430	9-9762028	30
1	9-4808710	3808	10-5099890	9-5119067	4294	10-4877043	10-0216347	418	9-9761633	29
2	9-4807622	3809	10-5098408	9-5119631	4290	10-4871049	10-0215700	417	9-9761241	28
3	9-4806473	3814	10-5096890	9-5119641	4286	10-4865259	10-0215170	412	9-9760830	27
4	9-4805345	3817	10-5095455	9-5119627	4283	10-4859573	10-0214588	413	9-9760418	26
5	9-4804216	3807	10-5093794	9-5119610	4280	10-4853790	10-0214004	413	9-9760006	25
6	9-4803083	3803	10-5092097	9-5119490	4276	10-4848010	10-0213407	413	9-9759593	24
7	9-4801946	3800	10-5090364	9-5119476	4273	10-4842234	10-0212820	414	9-9759180	23
8	9-4800806	3825	10-5088694	9-5119209	4270	10-4836461	10-0212234	413	9-9758768	22
9	9-4799661	3832	10-5087039	9-5119039	4266	10-4830691	10-0211647	415	9-9758353	21
10	9-4798512	3848	10-5085487	9-5119075	4263	10-4824945	10-0221073	415	9-9757938	20
11	9-4797361	3844	10-5083939	9-5118828	4259	10-4819162	10-0220497	415	9-9757523	19
12	9-4796208	3841	10-5082395	9-5118907	4256	10-4813390	10-0222802	415	9-9757108	18
13	9-4795050	3837	10-5080854	9-5117353	4253	10-4807647	10-0223307	410	9-9756693	17
14	9-4793893	3833	10-5079317	9-5117700	4249	10-4801904	10-0223723	417	9-9756277	16
15	9-4792736	3829	10-5077784	9-5118185	4246	10-4811145	10-0224140	416	9-9755860	15
16	9-4791575	3825	10-5076245	9-5118610	4243	10-4811389	10-0224555	418	9-9755444	14
17	9-4790417	3822	10-5074703	9-5119034	4239	10-4811633	10-0224974	417	9-9755028	13
18	9-4789259	3818	10-5073160	9-5119458	4236	10-4805417	10-0225391	418	9-9754609	12
19	9-4788101	3814	10-5071618	9-5119881	4233	10-4801181	10-0225808	419	9-9754191	11
20	9-4786942	3811	10-5070076	9-5200022	4230	10-4796948	10-0226228	418	9-9753772	10
21	9-4785783	3807	10-5068535	9-5200283	4226	10-4792718	10-0226646	420	9-9753354	9
22	9-4784624	3803	10-5066993	9-5211206	4223	10-4788492	10-0227063	419	9-9752934	8
23	9-4783465	3800	10-5065451	9-5215730	4220	10-4784260	10-0227485	420	9-9752515	7
24	9-4782306	3795	10-5063908	9-5219930	4216	10-4780027	10-0227908	421	9-9752095	6
25	9-4781147	3793	10-5062366	9-5224135	4213	10-4775794	10-0228326	421	9-9751674	5
26	9-4780003	3789	10-5060823	9-5228339	4210	10-4771561	10-0228747	421	9-9751253	4
27	9-4778844	3785	10-5059279	9-5232543	4206	10-4767311	10-0229168	422	9-9750832	3
28	9-4777685	3781	10-5057736	9-5236746	4204	10-4763065	10-0229589	422	9-9750411	2
29	9-4776526	3777	10-5056193	9-5240950	4200	10-4758811	10-0230012	422	9-9749990	1
30	9-4775367	3774	10-5054650	9-5245154	4196	10-4754561	10-0230434	423	9-9749569	30
31	9-4774208	3770	10-5053107	9-5249358	4194	10-4750310	10-0230857	423	9-9749148	29
32	9-4773049	3767	10-5051564	9-5253562	4190	10-4746061	10-0231280	424	9-9748727	28
33	9-4771890	3763	10-5050021	9-5257766	4187	10-4741811	10-0231704	424	9-9748306	27
34	9-4770731	3759	10-5048478	9-5261970	4184	10-4737564	10-0232128	425	9-9747885	26
35	9-4769572	3756	10-5046935	9-5266174	4181	10-4733310	10-0232553	425	9-9747464	25
36	9-4768413	3752	10-5045392	9-5270378	4177	10-4729060	10-0232978	425	9-9747043	24
37	9-4767254	3748	10-5043849	9-5274582	4174	10-4724810	10-0233403	426	9-9746622	23
38	9-4766095	3745	10-5042306	9-5278786	4171	10-4720561	10-0233828	426	9-9746201	22
39	9-4764936	3741	10-5040763	9-5282990	4168	10-4716311	10-0234253	427	9-9745780	21
40	9-4763777	3738	10-5039220	9-5287194	4165	10-4712061	10-0234678	427	9-9745359	20
41	9-4762618	3734	10-5037677	9-5291398	4161	10-4707811	10-0235103	427	9-9744938	19
42	9-4761459	3731	10-5036134	9-5295602	4158	10-4703561	10-0235528	428	9-9744517	18
43	9-4760300	3727	10-5034591	9-5299806	4156	10-4700065	10-0235953	428	9-9744096	17
44	9-4759141	3723	10-5033048	9-5304010	4152	10-4695819	10-0236378	429	9-9743675	16
45	9-4757982	3720	10-5031505	9-5308214	4148	10-4691573	10-0236803	429	9-9743254	15
46	9-4756823	3716	10-5029962	9-5312418	4146	10-4687327	10-0237228	429	9-9742833	14
47	9-4755664	3713	10-5028419	9-5316622	4143	10-4683081	10-0237653	430	9-9742412	13
48	9-4754505	3710	10-5026876	9-5320826	4139	10-4678835	10-0238078	430	9-9741991	12
49	9-4753346	3706	10-5025333	9-5325030	4137	10-4674589	10-0238503	431	9-9741570	11
50	9-4752187	3702	10-5023790	9-5329234	4133	10-4670343	10-0238928	431	9-9741149	10
51	9-4751028	3700	10-5022247	9-5333438	4130	10-4666097	10-0239353	432	9-9740728	9
52	9-4749869	3695	10-5020704	9-5337642	4127	10-4661851	10-0239778	431	9-9740307	8
53	9-4748710	3692	10-5019161	9-5341846	4124	10-4657605	10-0240203	433	9-9739886	7
54	9-4747551	3688	10-5017618	9-5346050	4121	10-4653359	10-0240628	433	9-9739465	6
55	9-4746392	3685	10-5016075	9-5350254	4117	10-4649113	10-0241053	433	9-9739044	5
56	9-4745233	3681	10-5014532	9-5354458	4114	10-4644867	10-0241478	433	9-9738623	4
57	9-4744074	3677	10-5012989	9-5358662	4113	10-4640621	10-0241903	434	9-9738202	3
58	9-4742915	3675	10-5011446	9-5362866	4109	10-4636375	10-0242328	435	9-9737781	2
59	9-4741756	3670	10-5009903	9-5367070	4106	10-4632129	10-0242753	434	9-9737360	1
60	9-4740597	3667	10-5008360	9-5371274	4103	10-4627883	10-0243178	436	9-9736939	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

'	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	'
0	9-5128419	3667	10-4873581	9-5369719	4102	10-4630281	10-0843389	436	9-9786701	60
1	9-5130085	3664	10-4869914	9-5372621	4099	10-4626179	10-0843735	436	9-9786865	59
2	9-5131740	3660	10-4866250	9-5375920	4097	10-4622080	10-0844170	436	9-9787030	58
3	9-5133410	3657	10-4862590	9-5379617	4093	10-4617983	10-0844606	437	9-9787195	57
4	9-5135107	3654	10-4858933	9-5383610	4090	10-4613880	10-0845043	436	9-9787360	56
5	9-5136821	3650	10-4855279	9-5387900	4087	10-4609800	10-0845479	438	9-9787525	55
6	9-5138571	3646	10-4851629	9-5392487	4084	10-4605713	10-0845917	437	9-9787690	54
7	9-5140347	3645	10-4847983	9-5396371	4082	10-4601629	10-0846354	438	9-9787855	53
8	9-5142140	3640	10-4844340	9-5400453	4078	10-4597547	10-0846792	439	9-9788020	52
9	9-5143930	3635	10-4840700	9-5404653	4075	10-4593469	10-0847231	439	9-9788185	51
10	9-5145736	3633	10-4837064	9-5410063	4072	10-4589394	10-0847670	439	9-9788350	50
11	9-5147559	3629	10-4833431	9-5414670	4069	10-4585322	10-0848109	440	9-9788515	49
12	9-5149398	3626	10-4829800	9-5419477	4066	10-4581253	10-0848548	440	9-9788680	48
13	9-5151254	3623	10-4826176	9-5424383	4064	10-4577183	10-0848989	441	9-9788845	47
14	9-5153127	3619	10-4822553	9-5429387	4060	10-4573123	10-0849430	441	9-9789010	46
15	9-5155016	3616	10-4818934	9-5434393	4057	10-4569063	10-0849871	441	9-9789175	45
16	9-5156922	3613	10-4815318	9-5439404	4054	10-4565003	10-0850312	442	9-9789340	44
17	9-5158845	3609	10-4811703	9-5444420	4052	10-4560952	10-0850754	442	9-9789505	43
18	9-5160784	3606	10-4808086	9-5449431	4048	10-4556900	10-0851196	443	9-9789670	42
19	9-5162739	3602	10-4804490	9-5454448	4045	10-4552852	10-0851639	443	9-9789835	41
20	9-5164711	3599	10-4800898	9-5459471	4043	10-4548807	10-0852082	443	9-9789999	40
21	9-5166701	3596	10-4797308	9-5464500	4040	10-4544764	10-0852525	444	9-9790164	39
22	9-5168707	3592	10-4793733	9-5469536	4036	10-4540724	10-0852969	444	9-9790329	38
23	9-5170730	3589	10-4790161	9-5474579	4034	10-4536686	10-0853413	445	9-9790494	37
24	9-5172769	3586	10-4786592	9-5479636	4031	10-4532654	10-0853858	445	9-9790659	36
25	9-5174824	3583	10-4783026	9-5484701	4028	10-4528623	10-0854303	445	9-9790824	35
26	9-5176895	3579	10-4779464	9-5489774	4025	10-4524595	10-0854748	446	9-9790989	34
27	9-5178982	3576	10-4775905	9-5494853	4022	10-4520570	10-0855194	447	9-9791154	33
28	9-5181085	3573	10-4772349	9-5499939	4019	10-4516548	10-0855641	446	9-9791319	32
29	9-5183204	3570	10-4768797	9-5505031	4016	10-4512529	10-0856087	447	9-9791484	31
30	9-5185338	3565	10-4765247	9-5510131	4013	10-4508513	10-0856534	448	9-9791649	30
31	9-5187487	3563	10-4761699	9-5515238	4011	10-4504500	10-0856982	448	9-9791814	29
32	9-5189651	3559	10-4758156	9-5520351	4008	10-4500489	10-0857430	448	9-9791979	28
33	9-5191830	3556	10-4754604	9-5525472	4004	10-4496481	10-0857878	449	9-9792144	27
34	9-5194024	3553	10-4751050	9-5530600	4002	10-4492477	10-0858327	449	9-9792309	26
35	9-5196233	3549	10-4747497	9-5535735	3999	10-4488475	10-0858776	450	9-9792474	25
36	9-5198457	3546	10-4743947	9-5540876	3997	10-4484476	10-0859226	450	9-9792639	24
37	9-5199694	3543	10-4740394	9-5546023	3993	10-4480479	10-0859676	451	9-9792804	23
38	9-5201947	3540	10-4736843	9-5551176	3990	10-4476486	10-0860127	451	9-9792969	22
39	9-5204216	3536	10-4733293	9-5556335	3988	10-4472496	10-0860578	451	9-9793134	21
40	9-5206500	3534	10-4729743	9-5561499	3985	10-4468506	10-0861029	452	9-9793299	20
41	9-5208800	3529	10-4726193	9-5566668	3983	10-4464523	10-0861481	452	9-9793464	19
42	9-5211126	3527	10-4722644	9-5571842	3979	10-4460541	10-0861933	452	9-9793629	18
43	9-5213468	3524	10-4719094	9-5577021	3977	10-4456563	10-0862386	453	9-9793794	17
44	9-5215827	3520	10-4715543	9-5582205	3973	10-4452585	10-0862838	453	9-9793959	16
45	9-5218202	3517	10-4711993	9-5587394	3971	10-4448611	10-0863291	454	9-9794124	15
46	9-5220593	3514	10-4708443	9-5592588	3968	10-4444641	10-0863745	454	9-9794289	14
47	9-5223000	3510	10-4704892	9-5597787	3965	10-4440673	10-0864199	455	9-9794454	13
48	9-5225423	3508	10-4701342	9-5602991	3963	10-4436708	10-0864654	455	9-9794619	12
49	9-5227862	3504	10-4697794	9-5608200	3959	10-4432745	10-0865108	456	9-9794784	11
50	9-5230317	3501	10-4694246	9-5613414	3957	10-4428786	10-0865563	456	9-9794949	10
51	9-5232788	3498	10-4690699	9-5618633	3954	10-4424829	10-0866018	457	9-9795114	9
52	9-5235275	3494	10-4687153	9-5623857	3952	10-4420876	10-0866477	457	9-9795279	8
53	9-5237778	3492	10-4683608	9-5629086	3948	10-4416923	10-0866932	457	9-9795444	7
54	9-5240297	3488	10-4680063	9-5634320	3945	10-4412975	10-0867388	458	9-9795609	6
55	9-5242832	3485	10-4676517	9-5639559	3943	10-4409028	10-0867843	458	9-9795774	5
56	9-5245383	3483	10-4672972	9-5644804	3940	10-4405086	10-0868298	458	9-9795939	4
57	9-5247950	3479	10-4669427	9-5650054	3936	10-4401146	10-0868754	459	9-9796104	3
58	9-5250533	3476	10-4665882	9-5655309	3935	10-4397206	10-0869213	459	9-9796269	2
59	9-5253132	3473	10-4662336	9-5660569	3932	10-4393273	10-0869673	460	9-9796434	1
60	9-5255747	3469	10-4658793	9-5665833	3929	10-4389341	10-0870133	460	9-9796599	0
'	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	'

30 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-5340517	3468	10-4659483	9-5610659	3629	10-4339341	10-1270148	480	9-9729858	80
1	9-5345986	3466	10-4659014	9-5614588	3627	10-4335412	10-1270602	480	9-9729398	89
2	9-5347428	3463	10-4658248	9-5618515	3624	10-4331485	10-1271052	461	9-9728938	88
3	9-5350918	3460	10-4649068	9-5622439	3621	10-4327561	10-1271523	461	9-9728477	87
4	9-5354375	3457	10-4643525	9-5626360	3618	10-4323640	10-1271984	462	9-9728016	86
5	9-5357832	3454	10-4642186	9-5630278	3616	10-4319722	10-1272446	462	9-9727554	85
6	9-5361288	3451	10-4638714	9-5634194	3613	10-4315806	10-1272908	463	9-9727092	84
7	9-5364737	3447	10-4635263	9-5638107	3611	10-4311883	10-1273371	463	9-9726629	83
8	9-5368184	3445	10-4631816	9-5642018	3607	10-4307962	10-1273834	463	9-9726166	82
9	9-5371629	3441	10-4628371	9-5645928	3606	10-4304078	10-1274297	464	9-9725703	81
10	9-5375070	3438	10-4624930	9-5649831	3602	10-4300109	10-1274761	464	9-9725239	80
11	9-5378508	3435	10-4621492	9-5653733	3600	10-4296207	10-1275225	465	9-9724775	79
12	9-5381943	3432	10-4618057	9-5657633	3607	10-4292307	10-1275690	465	9-9724310	78
13	9-5385375	3429	10-4614625	9-5661530	3604	10-4288407	10-1276155	465	9-9723846	77
14	9-5388804	3426	10-4611196	9-5665424	3602	10-4284578	10-1276620	466	9-9723380	76
15	9-5392230	3423	10-4607770	9-5669316	3600	10-4280684	10-1277086	466	9-9722914	75
16	9-5395653	3420	10-4604347	9-5673205	3600	10-4276794	10-1277552	467	9-9722448	74
17	9-5399073	3416	10-4600927	9-5677091	3604	10-4272909	10-1278019	467	9-9721981	73
18	9-5402489	3414	10-4597511	9-5680975	3601	10-4269025	10-1278486	467	9-9721514	72
19	9-5405903	3411	10-4594097	9-5684856	3678	10-4265144	10-1278953	468	9-9721047	71
20	9-5409314	3407	10-4590686	9-5688735	3678	10-4261265	10-1279421	469	9-9720579	70
21	9-5412721	3405	10-4587279	9-5692611	3673	10-4257389	10-1279890	469	9-9720110	69
22	9-5416126	3401	10-4583874	9-5696484	3671	10-4253516	10-1280358	470	9-9719642	68
23	9-5419527	3398	10-4580473	9-5700355	3668	10-4249645	10-1280828	469	9-9719173	67
24	9-5422926	3396	10-4577074	9-5704223	3665	10-4245777	10-1281297	470	9-9718703	66
25	9-5426321	3392	10-4573679	9-5708088	3663	10-4241912	10-1281767	471	9-9718233	65
26	9-5429713	3389	10-4570287	9-5711951	3660	10-4238049	10-1282238	471	9-9717763	64
27	9-5433103	3386	10-4566897	9-5715811	3658	10-4234189	10-1282709	471	9-9717291	63
28	9-5436489	3384	10-4563511	9-5719680	3655	10-4230331	10-1283180	472	9-9716820	62
29	9-5439873	3380	10-4560127	9-5723524	3653	10-4226476	10-1283652	472	9-9716348	61
30	9-5443253	3377	10-4556747	9-5727377	3650	10-4222623	10-1284124	472	9-9715876	60
31	9-5446630	3376	10-4553369	9-5731227	3647	10-4218773	10-1284596	473	9-9715404	59
32	9-5450005	3371	10-4549995	9-5735073	3645	10-4214926	10-1285069	474	9-9714931	58
33	9-5453376	3369	10-4546624	9-5738919	3642	10-4211081	10-1285543	473	9-9714457	57
34	9-5456745	3365	10-4543255	9-5742761	3640	10-4207239	10-1286016	475	9-9713984	56
35	9-5460110	3362	10-4539890	9-5746601	3637	10-4203399	10-1286491	474	9-9713509	55
36	9-5463472	3360	10-4536528	9-5750438	3634	10-4200002	10-1286965	475	9-9713035	54
37	9-5466829	3357	10-4533168	9-5754273	3632	10-4196158	10-1287440	476	9-9712561	53
38	9-5470189	3353	10-4529811	9-5758104	3630	10-4192316	10-1287915	476	9-9712084	52
39	9-5473548	3351	10-4526458	9-5761934	3627	10-4188476	10-1288392	476	9-9711608	51
40	9-5476903	3347	10-4523107	9-5765761	3624	10-4184639	10-1288868	477	9-9711133	50
41	9-5480240	3345	10-4519760	9-5769585	3622	10-4180805	10-1289345	477	9-9710658	49
42	9-5483585	3342	10-4516418	9-5773407	3619	10-4176973	10-1289823	477	9-9710178	48
43	9-5486927	3339	10-4513073	9-5777228	3617	10-4173144	10-1290302	478	9-9709701	47
44	9-5490268	3336	10-4509734	9-5781048	3615	10-4169317	10-1290782	479	9-9709223	46
45	9-5493608	3333	10-4506398	9-5784868	3611	10-4165492	10-1291263	479	9-9708744	45
46	9-5496945	3330	10-4503065	9-5788689	3610	10-4161669	10-1291745	479	9-9708265	44
47	9-5500285	3327	10-4499735	9-5792509	3607	10-4157847	10-1292228	480	9-9707786	43
48	9-5503622	3324	10-4496408	9-5796328	3604	10-4154027	10-1292711	480	9-9707307	42
49	9-5506956	3321	10-4493084	9-5800149	3602	10-4150209	10-1293195	480	9-9706828	41
50	9-5510287	3319	10-4489763	9-5803969	3599	10-4146393	10-1293680	481	9-9706349	40
51	9-5513615	3316	10-4486444	9-5807791	3597	10-4142579	10-1294165	482	9-9705869	39
52	9-5516951	3313	10-4483129	9-5811612	3594	10-4138767	10-1294651	481	9-9705389	38
53	9-5520284	3310	10-4479816	9-5815434	3592	10-4134957	10-1295138	482	9-9704909	37
54	9-5523624	3307	10-4476506	9-5819257	3590	10-4131149	10-1295625	482	9-9704429	36
55	9-5526961	3304	10-4473199	9-5823080	3587	10-4127343	10-1296113	483	9-9703949	35
56	9-5530305	3301	10-4469895	9-5826905	3584	10-4123539	10-1296602	484	9-9703469	34
57	9-5533646	3298	10-4466594	9-5830730	3583	10-4119736	10-1297092	484	9-9702989	33
58	9-5536984	3295	10-4463296	9-5834557	3580	10-4115935	10-1297583	484	9-9702509	32
59	9-5540329	3293	10-4460001	9-5838387	3577	10-4112136	10-1298075	485	9-9702029	31
60	9-5543672	3289	10-4456708	9-5842217	3575	10-4108339	10-1298568	485	9-9701549	30
7	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	7

21 Deg.

	Sine	Diff.	Consec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-5543899	3269	10-4456708	9-5541774	3775	10-4158996	10-0864483	485	9-9701617	60
1	9-5544581	3287	10-4453419	9-5545540	3772	10-4154461	10-0868968	486	9-9701032	59
2	9-5545263	3284	10-4450132	9-5546321	3770	10-4150079	10-0873453	486	9-9700447	58
3	9-5545945	3281	10-4446848	9-5547102	3768	10-4145699	10-0877938	487	9-9700061	57
4	9-5546627	3278	10-4443567	9-5547883	3765	10-4141314	10-0882423	487	9-9699574	56
5	9-5547309	3276	10-4440289	9-5548664	3762	10-4136937	10-0886908	487	9-9699087	55
6	9-5547991	3273	10-4437013	9-5549445	3761	10-4132561	10-0891393	488	9-9698600	54
7	9-5548673	3270	10-4433741	9-5550226	3757	10-4128185	10-0895878	488	9-9698112	53
8	9-5549355	3267	10-4430471	9-5551007	3756	10-4123806	10-0900363	488	9-9697624	52
9	9-5549997	3264	10-4427204	9-5551788	3753	10-4119430	10-0904848	489	9-9697136	51
10	9-5550639	3261	10-4423940	9-5552569	3750	10-4115057	10-0909333	489	9-9696648	50
11	9-5551281	3258	10-4420679	9-5553350	3749	10-4110687	10-0913818	490	9-9696159	49
12	9-5551923	3256	10-4417421	9-5554131	3747	10-4106313	10-0918303	491	9-9695670	48
13	9-5552565	3253	10-4414163	9-5554912	3744	10-4101934	10-0922788	491	9-9695182	47
14	9-5553207	3250	10-4410912	9-5555693	3741	10-4097559	10-0927273	491	9-9694693	46
15	9-5553849	3247	10-4407663	9-5556474	3737	10-4093183	10-0931758	492	9-9694205	45
16	9-5554491	3244	10-4404415	9-5557255	3736	10-4088811	10-0936243	492	9-9693717	44
17	9-5555133	3242	10-4401171	9-5558036	3734	10-4084438	10-0940728	492	9-9693229	43
18	9-5555775	3239	10-4397929	9-5558817	3731	10-4080064	10-0945213	493	9-9692740	42
19	9-5556417	3236	10-4394680	9-5559598	3730	10-4075691	10-0949698	493	9-9692252	41
20	9-5557059	3233	10-4391434	9-5560379	3727	10-4071318	10-0954183	493	9-9691764	40
21	9-5557701	3231	10-4388191	9-5561160	3724	10-4066945	10-0958668	495	9-9691276	39
22	9-5558343	3227	10-4384949	9-5561941	3722	10-4062573	10-0963153	494	9-9690787	38
23	9-5558985	3225	10-4381703	9-5562722	3718	10-4058201	10-0967638	495	9-9690299	37
24	9-5559627	3223	10-4378458	9-5563503	3716	10-4053829	10-0972123	495	9-9689811	36
25	9-5560269	3219	10-4375216	9-5564284	3715	10-4049457	10-0976608	496	9-9689323	35
26	9-5560911	3217	10-4371973	9-5565065	3713	10-4045085	10-0981093	496	9-9688835	34
27	9-5561553	3214	10-4368730	9-5565846	3710	10-4040714	10-0985578	497	9-9688347	33
28	9-5562195	3211	10-4365485	9-5566627	3708	10-4036343	10-0990063	497	9-9687859	32
29	9-5562837	3208	10-4362243	9-5567408	3706	10-4031971	10-0994548	497	9-9687371	31
30	9-5563479	3206	10-4359000	9-5568189	3704	10-4027600	10-0999033	498	9-9686883	30
31	9-5564121	3203	10-4355757	9-5568970	3701	10-4023228	10-1003518	498	9-9686395	29
32	9-5564763	3200	10-4352513	9-5569751	3699	10-4018857	10-1008003	499	9-9685907	28
33	9-5565405	3198	10-4349270	9-5570532	3697	10-4014485	10-1012488	499	9-9685419	27
34	9-5566047	3195	10-4346027	9-5571313	3694	10-4010114	10-1016973	499	9-9684931	26
35	9-5566689	3192	10-4342784	9-5572094	3692	10-4005743	10-1021458	500	9-9684443	25
36	9-5567331	3189	10-4339541	9-5572875	3690	10-4001371	10-1025943	501	9-9683955	24
37	9-5567973	3187	10-4336298	9-5573656	3688	10-3997000	10-1030428	501	9-9683467	23
38	9-5568615	3184	10-4333055	9-5574437	3685	10-3992628	10-1034913	501	9-9682979	22
39	9-5569257	3181	10-4329812	9-5575218	3683	10-3988257	10-1039398	502	9-9682491	21
40	9-5569899	3179	10-4326569	9-5575999	3680	10-3983885	10-1043883	502	9-9682003	20
41	9-5570541	3176	10-4323326	9-5576780	3679	10-3979514	10-1048368	502	9-9681515	19
42	9-5571183	3173	10-4320083	9-5577561	3676	10-3975143	10-1052853	503	9-9681027	18
43	9-5571825	3170	10-4316840	9-5578342	3674	10-3970771	10-1057338	503	9-9680539	17
44	9-5572467	3168	10-4313597	9-5579123	3673	10-3966400	10-1061823	504	9-9680051	16
45	9-5573109	3166	10-4310354	9-5579904	3669	10-3962028	10-1066308	504	9-9679563	15
46	9-5573751	3162	10-4307111	9-5580685	3667	10-3957657	10-1070793	505	9-9679075	14
47	9-5574393	3160	10-4303868	9-5581466	3665	10-3953285	10-1075278	506	9-9678587	13
48	9-5575035	3157	10-4300625	9-5582247	3663	10-3948914	10-1079763	506	9-9678099	12
49	9-5575677	3155	10-4297382	9-5583028	3660	10-3944543	10-1084248	506	9-9677611	11
50	9-5576319	3151	10-4294139	9-5583809	3658	10-3940171	10-1088733	506	9-9677123	10
51	9-5576961	3150	10-4290896	9-5584590	3656	10-3935800	10-1093218	507	9-9676635	9
52	9-5577603	3146	10-4287653	9-5585371	3654	10-3931428	10-1097703	507	9-9676147	8
53	9-5578245	3144	10-4284410	9-5586152	3653	10-3927057	10-1102188	508	9-9675659	7
54	9-5578887	3141	10-4281167	9-5586933	3649	10-3922686	10-1106673	508	9-9675171	6
55	9-5579529	3139	10-4277924	9-5587714	3647	10-3918314	10-1111158	508	9-9674683	5
56	9-5580171	3136	10-4274681	9-5588495	3645	10-3913943	10-1115643	509	9-9674195	4
57	9-5580813	3133	10-4271438	9-5589276	3643	10-3909571	10-1120128	509	9-9673707	3
58	9-5581455	3131	10-4268195	9-5590057	3640	10-3905200	10-1124613	510	9-9673219	2
59	9-5582097	3128	10-4264952	9-5590838	3639	10-3900828	10-1129098	510	9-9672731	1
60	9-5582739	3126	10-4261709	9-5591619	3636	10-3896457	10-1133583	511	9-9672243	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Consec.	D.	Sine	

22 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-5736754	3126	10-4264846	9-0064093	3636	10-3335904	10-0322341	511	9-9671608	60
1	9-5736980	3123	10-4265120	9-0067739	3634	10-3332268	10-0322832	511	9-9671146	59
2	9-5737203	3120	10-4265397	9-0071386	3631	10-3328634	10-0323323	512	9-9670683	58
3	9-5737423	3117	10-4265677	9-0075037	3630	10-3325003	10-0323815	512	9-9670220	57
4	9-5737640	3116	10-4265950	9-0078687	3627	10-3321373	10-0324306	513	9-9669758	56
5	9-5737856	3112	10-4266224	9-0082334	3626	10-3317746	10-0324798	513	9-9669295	55
6	9-5738070	3110	10-4266492	9-0085980	3623	10-3314120	10-0325289	513	9-9668832	54
7	9-5738278	3107	10-4266762	9-0089633	3621	10-3310497	10-0325781	513	9-9668369	53
8	9-5738485	3105	10-4267031	9-0093284	3618	10-3306876	10-0326272	514	9-9667906	52
9	9-5738690	3102	10-4267302	9-0096942	3617	10-3303258	10-0326763	514	9-9667443	51
10	9-5738892	3099	10-4267571	9-0100609	3614	10-3300084	10-0327254	515	9-9666980	50
11	9-5739091	3097	10-4267840	9-0104273	3613	10-3296927	10-0327745	515	9-9666518	49
12	9-5739290	3095	10-4268109	9-0107936	3610	10-3293764	10-0328236	516	9-9666055	48
13	9-5739487	3092	10-4268377	9-0111606	3608	10-3290604	10-0328727	516	9-9665592	47
14	9-5739685	3089	10-4268645	9-0115274	3605	10-3287441	10-0329218	517	9-9665129	46
15	9-5739882	3086	10-4268912	9-0118940	3604	10-3284281	10-0329709	517	9-9664666	45
16	9-5740078	3083	10-4269179	9-0122603	3602	10-3281124	10-0330199	517	9-9664203	44
17	9-5740273	3081	10-4269445	9-0126265	3599	10-3277967	10-0330690	518	9-9663740	43
18	9-5740468	3079	10-4269711	9-0129924	3598	10-3274815	10-0331181	518	9-9663277	42
19	9-5740663	3077	10-4269976	9-0133581	3595	10-3271658	10-0331672	519	9-9662814	41
20	9-5740857	3073	10-4270240	9-0137247	3593	10-3268505	10-0332163	519	9-9662351	40
21	9-5741050	3072	10-4270503	9-0140911	3591	10-3265352	10-0332654	520	9-9661888	39
22	9-5741243	3069	10-4270766	9-0144574	3589	10-3262199	10-0333145	520	9-9661425	38
23	9-5741436	3066	10-4271028	9-0148236	3586	10-3259046	10-0333636	521	9-9660962	37
24	9-5741628	3064	10-4271289	9-0151897	3585	10-3255893	10-0334127	521	9-9660499	36
25	9-5741820	3061	10-4271549	9-0155557	3583	10-3252740	10-0334618	522	9-9660036	35
26	9-5742011	3059	10-4271809	9-0159216	3580	10-3249587	10-0335109	522	9-9659573	34
27	9-5742202	3056	10-4272068	9-0162874	3579	10-3246434	10-0335599	522	9-9659110	33
28	9-5742393	3053	10-4272326	9-0166531	3576	10-3243281	10-0336090	522	9-9658647	32
29	9-5742583	3052	10-4272583	9-0170189	3574	10-3240128	10-0336581	524	9-9658184	31
30	9-5742773	3048	10-4272839	9-0173845	3572	10-3236975	10-0337072	523	9-9657721	30
31	9-5742962	3046	10-4273094	9-0177501	3570	10-3233822	10-0337563	524	9-9657258	29
32	9-5743151	3044	10-4273348	9-0181156	3568	10-3230669	10-0338054	524	9-9656795	28
33	9-5743340	3041	10-4273602	9-0184811	3566	10-3227516	10-0338545	525	9-9656332	27
34	9-5743528	3039	10-4273855	9-0188465	3564	10-3224363	10-0339036	525	9-9655869	26
35	9-5743716	3036	10-4274108	9-0192119	3562	10-3221210	10-0339527	526	9-9655406	25
36	9-5743904	3034	10-4274360	9-0195772	3560	10-3218057	10-0340018	526	9-9654943	24
37	9-5744091	3031	10-4274612	9-0199425	3557	10-3214904	10-0340509	527	9-9654480	23
38	9-5744278	3029	10-4274864	9-0203078	3556	10-3211751	10-0340999	527	9-9654017	22
39	9-5744465	3026	10-4275115	9-0206731	3554	10-3208598	10-0341490	527	9-9653554	21
40	9-5744652	3024	10-4275366	9-0210384	3551	10-3205445	10-0341981	528	9-9653091	20
41	9-5744839	3021	10-4275617	9-0214037	3550	10-3202292	10-0342472	528	9-9652628	19
42	9-5745025	3019	10-4275868	9-0217690	3547	10-3199139	10-0342963	529	9-9652165	18
43	9-5745212	3016	10-4276118	9-0221343	3546	10-3195986	10-0343454	529	9-9651702	17
44	9-5745398	3014	10-4276368	9-0224996	3543	10-3192833	10-0343945	529	9-9651239	16
45	9-5745584	3011	10-4276618	9-0228649	3541	10-3189680	10-0344436	530	9-9650776	15
46	9-5745770	3009	10-4276868	9-0232302	3540	10-3186527	10-0344927	531	9-9650313	14
47	9-5745956	3007	10-4277117	9-0235955	3537	10-3183374	10-0345418	530	9-9649850	13
48	9-5746142	3004	10-4277366	9-0239608	3536	10-3180221	10-0345909	532	9-9649387	12
49	9-5746328	3001	10-4277615	9-0243261	3533	10-3177068	10-0346400	531	9-9648924	11
50	9-5746513	3000	10-4277864	9-0246914	3531	10-3173915	10-0346891	531	9-9648461	10
51	9-5746699	2996	10-4278113	9-0250567	3529	10-3170762	10-0347382	532	9-9648000	9
52	9-5746884	2995	10-4278362	9-0254220	3528	10-3167609	10-0347873	533	9-9647537	8
53	9-5747069	2992	10-4278611	9-0257873	3525	10-3164456	10-0348364	534	9-9647074	7
54	9-5747254	2990	10-4278860	9-0261526	3523	10-3161303	10-0348855	533	9-9646611	6
55	9-5747439	2987	10-4279109	9-0265179	3522	10-3158150	10-0349346	535	9-9646148	5
56	9-5747624	2985	10-4279358	9-0268832	3519	10-3154997	10-0349837	534	9-9645685	4
57	9-5747809	2983	10-4279607	9-0272485	3518	10-3151844	10-0350328	535	9-9645222	3
58	9-5747994	2980	10-4279856	9-0276138	3515	10-3148691	10-0350819	536	9-9644759	2
59	9-5748179	2977	10-4280105	9-0279791	3513	10-3145538	10-0351310	536	9-9644296	1
60	9-5748364	2975	10-4280354	9-0283444	3512	10-3142385	10-0351801	537	9-9643833	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

25 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-5918780	2975	10-4091220	9-5978519	3312	10-3721481	10-0359729	537	9-9640961	60
1	9-5919758	2973	10-4073345	9-5989031	3306	10-3717969	10-0360676	537	9-9639734	59
2	9-5920736	2970	10-4073272	9-5989540	3308	10-3714480	10-0360681	537	9-9638507	58
3	9-5921714	2968	10-4073202	9-5990048	3305	10-3710952	10-0361230	538	9-9637280	57
4	9-5922692	2965	10-4068334	9-5990553	3304	10-3707447	10-0361888	538	9-9636053	56
5	9-5923670	2963	10-4068369	9-5991067	3301	10-3703943	10-0362493	538	9-9634826	55
6	9-5924648	2961	10-4063406	9-5991580	3300	10-3700442	10-0363094	540	9-9633599	54
7	9-5925626	2958	10-4060445	9-5992095	3308	10-3696942	10-0363694	539	9-9632372	53
8	9-5926604	2956	10-4057487	9-5992608	3306	10-3693444	10-0364293	540	9-9631145	52
9	9-5927582	2953	10-4054531	9-5993123	3303	10-3689948	10-0364893	540	9-9629918	51
10	9-5928560	2951	10-4051578	9-5993638	3309	10-3686455	10-0365493	541	9-9628691	50
11	9-5929538	2949	10-4048627	9-5994153	3309	10-3682963	10-0366094	541	9-9627464	49
12	9-5930516	2946	10-4045678	9-5994667	3308	10-3679473	10-0366695	542	9-9626237	48
13	9-5931494	2944	10-4042732	9-5995181	3306	10-3675985	10-0367297	542	9-9625010	47
14	9-5932472	2942	10-4039788	9-5995696	3307	10-3672499	10-0367898	543	9-9623783	46
15	9-5933450	2939	10-4036846	9-5996210	3303	10-3669015	10-0368499	543	9-9622556	45
16	9-5934428	2937	10-4033907	9-5996725	3300	10-3665532	10-0369099	543	9-9621329	44
17	9-5935406	2935	10-4030970	9-5997239	3308	10-3662048	10-0369699	544	9-9620102	43
18	9-5936384	2932	10-4028033	9-5997754	3307	10-3658567	10-0370299	544	9-9618875	42
19	9-5937362	2930	10-4025093	9-5998268	3305	10-3655087	10-0370899	545	9-9617648	41
20	9-5938340	2927	10-4022173	9-5998783	3302	10-3651602	10-0371499	545	9-9616421	40
21	9-5939318	2925	10-4019246	9-5999297	3301	10-3648115	10-0372099	546	9-9615194	39
22	9-5940296	2923	10-4016321	9-5999812	3309	10-3644629	10-0372699	546	9-9613967	38
23	9-5941274	2921	10-4013398	9-6000326	3307	10-3641142	10-0373299	547	9-9612740	37
24	9-5942252	2918	10-4010477	9-6000841	3306	10-3637657	10-0373899	547	9-9611513	36
25	9-5943230	2916	10-4007559	9-6001355	3303	10-3634172	10-0374499	547	9-9610286	35
26	9-5944208	2913	10-4004643	9-6001870	3301	10-3630687	10-0375099	548	9-9609059	34
27	9-5945186	2911	10-4001730	9-6002384	3300	10-3627204	10-0375699	548	9-9607832	33
28	9-5946164	2909	10-3998819	9-6002899	3307	10-3623719	10-0376299	549	9-9606605	32
29	9-5947142	2907	10-3995910	9-6003413	3306	10-3620234	10-0376899	549	9-9605378	31
30	9-5948120	2904	10-3993003	9-6003928	3304	10-3616749	10-0377499	550	9-9604151	30
31	9-5949098	2902	10-3990098	9-6004442	3302	10-3613264	10-0378099	550	9-9602924	29
32	9-5950076	2900	10-3987197	9-6004957	3300	10-3609779	10-0378699	551	9-9601697	28
33	9-5951054	2897	10-3984297	9-6005471	3308	10-3606294	10-0379299	551	9-9600470	27
34	9-5952032	2895	10-3981400	9-6005986	3306	10-3602809	10-0379899	552	9-9599243	26
35	9-5953010	2893	10-3978506	9-6006500	3304	10-3599324	10-0380499	552	9-9598016	25
36	9-5953988	2890	10-3975612	9-6007015	3302	10-3595839	10-0381099	553	9-9596789	24
37	9-5954966	2888	10-3972722	9-6007529	3301	10-3592354	10-0381699	553	9-9595562	23
38	9-5955944	2886	10-3969834	9-6008044	3309	10-3588869	10-0382299	553	9-9594335	22
39	9-5956922	2884	10-3966948	9-6008558	3307	10-3585384	10-0382899	554	9-9593108	21
40	9-5957900	2881	10-3964064	9-6009073	3306	10-3581899	10-0383499	554	9-9591881	20
41	9-5958878	2879	10-3961183	9-6009587	3304	10-3578414	10-0384099	554	9-9590654	19
42	9-5959856	2877	10-3958304	9-6010102	3303	10-3574929	10-0384699	555	9-9589427	18
43	9-5960834	2875	10-3955427	9-6010617	3301	10-3571444	10-0385299	555	9-9588200	17
44	9-5961812	2872	10-3952553	9-6011131	3300	10-3567959	10-0385899	556	9-9586973	16
45	9-5962790	2870	10-3949680	9-6011646	3308	10-3564474	10-0386499	556	9-9585746	15
46	9-5963768	2867	10-3946810	9-6012160	3306	10-3560989	10-0387099	557	9-9584519	14
47	9-5964746	2865	10-3943943	9-6012675	3304	10-3557504	10-0387699	557	9-9583292	13
48	9-5965724	2863	10-3941077	9-6013189	3302	10-3554019	10-0388299	558	9-9582065	12
49	9-5966702	2861	10-3938214	9-6013704	3301	10-3550534	10-0388899	558	9-9580838	11
50	9-5967680	2859	10-3935353	9-6014218	3309	10-3547049	10-0389499	559	9-9579611	10
51	9-5968658	2856	10-3932494	9-6014733	3307	10-3543564	10-0390099	559	9-9578384	9
52	9-5969636	2854	10-3929638	9-6015247	3306	10-3540079	10-0390699	560	9-9577157	8
53	9-5970614	2852	10-3926784	9-6015762	3304	10-3536594	10-0391299	560	9-9575930	7
54	9-5971592	2850	10-3923929	9-6016276	3303	10-3533109	10-0391899	560	9-9574703	6
55	9-5972570	2847	10-3921088	9-6016791	3301	10-3529624	10-0392499	561	9-9573476	5
56	9-5973548	2846	10-3918233	9-6017305	3300	10-3526139	10-0393099	561	9-9572249	4
57	9-5974526	2843	10-3915389	9-6017820	3308	10-3522654	10-0393699	561	9-9571022	3
58	9-5975504	2840	10-3912546	9-6018334	3306	10-3519169	10-0394299	562	9-9569795	2
59	9-5976482	2838	10-3909705	9-6018849	3304	10-3515684	10-0394899	562	9-9568568	1
60	9-5977460	2836	10-3906867	9-6019363	3303	10-3512199	10-0395499	563	9-9567341	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

65 Deg.

24 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	0.40603133	2636	10.3908807	0.40603133	3360	10.3514160	10.4368908	563	0.99797308	60
1	0.40608909	2234	10.3904031	0.40608909	3360	10.3510770	10.4365801	563	0.99797209	59
2	0.40614685	2233	10.3901197	0.40614685	3360	10.3507377	10.4362694	564	0.99797110	58
3	0.40620461	2233	10.3898365	0.40620461	3360	10.3503977	10.4359588	564	0.99797011	57
4	0.40626237	2232	10.3895533	0.40626237	3360	10.3500583	10.4356481	564	0.99796912	56
5	0.40632013	2232	10.3892707	0.40632013	3360	10.3497191	10.4353375	565	0.99796813	55
6	0.40637789	2232	10.3889889	0.40637789	3360	10.3493801	10.4350268	565	0.99796714	54
7	0.40643565	2231	10.3887069	0.40643565	3367	10.3490413	10.4347162	565	0.99796615	53
8	0.40649341	2231	10.3884238	0.40649341	3365	10.3487026	10.4344055	566	0.99796516	52
9	0.40655117	2231	10.3881420	0.40655117	3363	10.3483641	10.4340948	567	0.99796417	51
10	0.40660893	2231	10.3878603	0.40660893	3361	10.3480258	10.4337841	567	0.99796318	50
11	0.40666669	2231	10.3875789	0.40666669	3360	10.3476877	10.4334734	568	0.99796219	49
12	0.40672445	2230	10.3872977	0.40672445	3378	10.3473497	10.4331628	568	0.99796120	48
13	0.40678221	2230	10.3870167	0.40678221	3376	10.3470119	10.4328521	569	0.99796021	47
14	0.40683997	2230	10.3867359	0.40683997	3374	10.3466743	10.4325415	569	0.99795922	46
15	0.40689773	2230	10.3864554	0.40689773	3373	10.3463370	10.4322308	569	0.99795823	45
16	0.40695549	2230	10.3861750	0.40695549	3371	10.3459998	10.4319202	570	0.99795724	44
17	0.40701325	2229	10.3858949	0.40701325	3369	10.3456626	10.4316095	570	0.99795625	43
18	0.40707101	2229	10.3856150	0.40707101	3368	10.3453255	10.4313000	571	0.99795526	42
19	0.40712877	2229	10.3853353	0.40712877	3366	10.3449888	10.4309893	571	0.99795427	41
20	0.40718653	2229	10.3850559	0.40718653	3364	10.3446523	10.4306786	571	0.99795328	40
21	0.40724429	2229	10.3847766	0.40724429	3363	10.3443159	10.4303679	572	0.99795229	39
22	0.40730205	2228	10.3844976	0.40730205	3360	10.3439798	10.4300572	573	0.99795130	38
23	0.40735981	2228	10.3842188	0.40735981	3359	10.3436436	10.4297465	573	0.99795031	37
24	0.40741757	2228	10.3839401	0.40741757	3367	10.3433077	10.4294358	573	0.99794932	36
25	0.40747533	2228	10.3836618	0.40747533	3366	10.3429720	10.4291251	574	0.99794833	35
26	0.40753309	2228	10.3833836	0.40753309	3363	10.3426364	10.4288144	574	0.99794734	34
27	0.40759085	2227	10.3831056	0.40759085	3362	10.3423011	10.4285037	574	0.99794635	33
28	0.40764861	2227	10.3828279	0.40764861	3361	10.3419659	10.4281930	575	0.99794536	32
29	0.40770637	2227	10.3825504	0.40770637	3340	10.3416308	10.4278823	576	0.99794437	31
30	0.40776413	2227	10.3822730	0.40776413	3348	10.3412959	10.4275716	576	0.99794338	30
31	0.40782189	2227	10.3819959	0.40782189	3346	10.3409613	10.4272609	577	0.99794239	29
32	0.40787965	2227	10.3817191	0.40787965	3343	10.3406267	10.4269502	577	0.99794140	28
33	0.40793741	2226	10.3814424	0.40793741	3349	10.3402924	10.4266395	577	0.99794041	27
34	0.40799517	2226	10.3811659	0.40799517	3340	10.3399588	10.4263288	578	0.99793942	26
35	0.40805293	2226	10.3808897	0.40805293	3339	10.3396249	10.4260181	578	0.99793843	25
36	0.40811069	2226	10.3806136	0.40811069	3337	10.3392908	10.4257074	579	0.99793744	24
37	0.40816845	2226	10.3803378	0.40816845	3335	10.3389566	10.4253967	579	0.99793645	23
38	0.40822621	2225	10.3800622	0.40822621	3334	10.3386223	10.4250860	579	0.99793546	22
39	0.40828397	2225	10.3797868	0.40828397	3331	10.3382887	10.4247753	580	0.99793447	21
40	0.40834173	2225	10.3795116	0.40834173	3331	10.3379546	10.4244646	580	0.99793348	20
41	0.40839949	2225	10.3792366	0.40839949	3329	10.3376205	10.4241539	581	0.99793249	19
42	0.40845725	2225	10.3789618	0.40845725	3327	10.3372867	10.4238432	581	0.99793150	18
43	0.40851501	2224	10.3786873	0.40851501	3326	10.3369526	10.4235325	582	0.99793051	17
44	0.40857277	2224	10.3784129	0.40857277	3324	10.3366185	10.4232218	582	0.99792952	16
45	0.40863053	2224	10.3781388	0.40863053	3322	10.3362843	10.4229111	583	0.99792853	15
46	0.40868829	2223	10.3778649	0.40868829	3320	10.3359502	10.4226004	583	0.99792754	14
47	0.40874605	2223	10.3775912	0.40874605	3319	10.3356160	10.4222897	584	0.99792655	13
48	0.40880381	2223	10.3773176	0.40880381	3316	10.3352819	10.4219790	584	0.99792556	12
49	0.40886157	2223	10.3770443	0.40886157	3316	10.3349478	10.4216683	585	0.99792457	11
50	0.40891933	2222	10.3767713	0.40891933	3313	10.3346136	10.4213576	585	0.99792358	10
51	0.40897709	2222	10.3764984	0.40897709	3313	10.3342795	10.4210469	585	0.99792259	9
52	0.40903485	2222	10.3762257	0.40903485	3310	10.3339453	10.4207362	586	0.99792160	8
53	0.40909261	2222	10.3759533	0.40909261	3309	10.3336112	10.4204255	586	0.99792061	7
54	0.40915037	2221	10.3756810	0.40915037	3307	10.3332770	10.4201148	587	0.99791962	6
55	0.40920813	2221	10.3754089	0.40920813	3306	10.3329429	10.4198041	587	0.99791863	5
56	0.40926589	2221	10.3751371	0.40926589	3304	10.3326087	10.4194934	588	0.99791764	4
57	0.40932365	2221	10.3748654	0.40932365	3303	10.3322746	10.4191827	588	0.99791665	3
58	0.40938141	2220	10.3745940	0.40938141	3300	10.3319404	10.4188720	589	0.99791566	2
59	0.40943917	2220	10.3743228	0.40943917	3299	10.3316063	10.4185613	589	0.99791467	1
60	0.40949693	2220	10.3740517	0.40949693	3296	10.3312721	10.4182506	589	0.99791368	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

25 Deg.

	Sine	Diff.	Co-sec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-0394683	2708	10-3740517	9-0886735	3286	10-3313275	10-0427943	589	9-9872767	80
1	9-0395181	2708	10-3737800	9-0886023	3286	10-3308677	10-0427833	590	9-9873108	81
2	9-0395687	2704	10-3735103	9-0885319	3284	10-3304081	10-0427722	590	9-9873457	82
3	9-0396191	2702	10-3732429	9-0884613	3283	10-3300387	10-0427611	591	9-9873806	83
4	9-0396703	2700	10-3729767	9-0883906	3281	10-3296694	10-0427500	591	9-9874155	84
5	9-0397208	2698	10-3727129	9-0883197	3280	10-3293003	10-0427389	591	9-9874504	85
6	9-0397701	2696	10-3724509	9-0882486	3278	10-3289314	10-0427278	592	9-9874853	86
7	9-0398197	2693	10-3721903	9-0881774	3276	10-3285626	10-0427167	593	9-9875202	87
8	9-0398690	2692	10-3719310	9-0881060	3275	10-3281940	10-0427056	593	9-9875551	88
9	9-0399182	2690	10-3716728	9-0880345	3273	10-3278255	10-0426945	593	9-9875900	89
10	9-0399672	2688	10-3714158	9-0879628	3272	10-3274572	10-0426834	594	9-9876249	90
11	9-0400161	2685	10-3711600	9-0878910	3270	10-3270890	10-0426723	594	9-9876598	91
12	9-0400648	2684	10-3709055	9-0878191	3278	10-3267210	10-0426612	595	9-9876947	92
13	9-0401132	2682	10-3706521	9-0877471	3277	10-3263532	10-0426501	595	9-9877296	93
14	9-0401611	2679	10-3703998	9-0876750	3275	10-3259855	10-0426390	596	9-9877645	94
15	9-0402089	2678	10-3701485	9-0876029	3274	10-3256180	10-0426279	596	9-9877994	95
16	9-0402565	2675	10-3698982	9-0875307	3272	10-3252506	10-0426168	596	9-9878343	96
17	9-0403040	2674	10-3696487	9-0874585	3270	10-3248834	10-0426057	597	9-9878692	97
18	9-0403513	2672	10-3694003	9-0873863	3269	10-3245164	10-0425946	597	9-9879041	98
19	9-0403985	2669	10-3691529	9-0873141	3267	10-3241495	10-0425835	597	9-9879390	99
20	9-0404455	2668	10-3689064	9-0872419	3265	10-3237827	10-0425724	598	9-9879739	00
21	9-0404924	2665	10-3686607	9-0871696	3263	10-3234161	10-0425613	598	9-9880088	01
22	9-0405391	2664	10-3684158	9-0870973	3262	10-3230496	10-0425502	599	9-9880437	02
23	9-0405857	2661	10-3681716	9-0870250	3261	10-3226832	10-0425391	599	9-9880786	03
24	9-0406321	2660	10-3679281	9-0869527	3260	10-3223169	10-0425280	600	9-9881135	04
25	9-0406784	2657	10-3676852	9-0868803	3258	10-3219507	10-0425169	601	9-9881484	05
26	9-0407245	2656	10-3674429	9-0868079	3257	10-3215846	10-0425058	601	9-9881833	06
27	9-0407705	2653	10-3672011	9-0867354	3255	10-3212186	10-0424947	602	9-9882182	07
28	9-0408164	2652	10-3669598	9-0866629	3253	10-3208527	10-0424836	602	9-9882531	08
29	9-0408621	2650	10-3667190	9-0865904	3252	10-3204869	10-0424725	603	9-9882880	09
30	9-0409077	2647	10-3664786	9-0865179	3250	10-3201212	10-0424614	603	9-9883229	10
31	9-0409531	2646	10-3662387	9-0864454	3249	10-3197556	10-0424503	604	9-9883578	11
32	9-0409984	2643	10-3660000	9-0863729	3248	10-3193901	10-0424392	604	9-9883927	12
33	9-0410435	2642	10-3657616	9-0862994	3246	10-3190247	10-0424281	605	9-9884276	13
34	9-0410885	2640	10-3655236	9-0862269	3245	10-3186594	10-0424170	605	9-9884625	14
35	9-0411333	2637	10-3652860	9-0861544	3242	10-3182942	10-0424059	606	9-9884974	15
36	9-0411779	2636	10-3650488	9-0860819	3241	10-3179291	10-0423948	606	9-9885323	16
37	9-0412223	2634	10-3648120	9-0860094	3239	10-3175640	10-0423837	607	9-9885672	17
38	9-0412665	2632	10-3645756	9-0859369	3238	10-3171990	10-0423726	607	9-9886021	18
39	9-0413106	2630	10-3643400	9-0858644	3236	10-3168340	10-0423615	607	9-9886370	19
40	9-0413545	2628	10-3641049	9-0857919	3235	10-3164690	10-0423504	608	9-9886719	20
41	9-0413983	2625	10-3638703	9-0857194	3233	10-3161041	10-0423393	608	9-9887068	21
42	9-0414419	2623	10-3636362	9-0856469	3232	10-3157392	10-0423282	609	9-9887417	22
43	9-0414854	2622	10-3634026	9-0855744	3230	10-3153744	10-0423171	609	9-9887766	23
44	9-0415288	2620	10-3631695	9-0855019	3229	10-3150096	10-0423060	610	9-9888115	24
45	9-0415721	2618	10-3629369	9-0854294	3228	10-3146449	10-0422949	610	9-9888464	25
46	9-0416153	2616	10-3627048	9-0853569	3226	10-3142803	10-0422838	611	9-9888813	26
47	9-0416585	2614	10-3624731	9-0852844	3225	10-3139157	10-0422727	611	9-9889162	27
48	9-0417016	2613	10-3622418	9-0852119	3223	10-3135512	10-0422616	612	9-9889511	28
49	9-0417446	2610	10-3620109	9-0851394	3222	10-3131867	10-0422505	612	9-9889860	29
50	9-0417875	2608	10-3617804	9-0850669	3221	10-3128223	10-0422394	613	9-9890209	30
51	9-0418303	2607	10-3615503	9-0849944	3219	10-3124579	10-0422283	613	9-9890558	31
52	9-0418730	2604	10-3613206	9-0849219	3218	10-3120936	10-0422172	613	9-9890907	32
53	9-0419156	2603	10-3610913	9-0848494	3215	10-3117293	10-0422061	614	9-9891256	33
54	9-0419581	2601	10-3608624	9-0847769	3215	10-3113650	10-0421950	614	9-9891605	34
55	9-0420005	2600	10-3606339	9-0847044	3213	10-3110007	10-0421839	615	9-9891954	35
56	9-0420428	2599	10-3604057	9-0846319	3211	10-3106364	10-0421728	615	9-9892303	36
57	9-0420850	2598	10-3601779	9-0845594	3210	10-3102721	10-0421617	615	9-9892652	37
58	9-0421271	2596	10-3599504	9-0844869	3209	10-3099078	10-0421506	616	9-9893001	38
59	9-0421691	2595	10-3597232	9-0844144	3207	10-3095435	10-0421395	616	9-9893350	39
60	9-0422110	2593	10-3594963	9-0843419	3205	10-3091792	10-0421284	617	9-9893699	40
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Co-sec.	D.	Sine	

25 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9-6418420	2589	10-3581580	9-6861818	3805	10-3118182	10-0463398	617	9-9899002	20
1	9-6421009	2587	10-3577991	9-6865483	3804	10-3114977	10-0464015	616	9-9898385	20
2	9-6423596	2586	10-3574004	9-6869227	3803	10-3111773	10-0464631	615	9-9897768	20
3	9-6426182	2583	10-3570018	9-6872971	3801	10-3108570	10-0465248	617	9-9897151	20
4	9-6428768	2582	10-3571231	9-6876715	3800	10-3105369	10-0465865	619	9-9896534	20
5	9-6431354	2579	10-3567245	9-6880459	3189	10-3102169	10-0466482	618	9-9895917	20
6	9-6433940	2578	10-3563259	9-6884203	3186	10-3098970	10-0467103	619	9-9895300	20
7	9-6436526	2576	10-3559273	9-6887947	3186	10-3095774	10-0467723	620	9-9894683	20
8	9-6439112	2574	10-3555287	9-6891691	3184	10-3092578	10-0468349	620	9-9894066	20
9	9-6441698	2573	10-3551301	9-6895435	3183	10-3089384	10-0468970	620	9-9893449	20
10	9-6444284	2570	10-3547315	9-6899179	3181	10-3086181	10-0469593	621	9-9892832	20
11	9-6446870	2569	10-3543329	9-6902923	3180	10-3082980	10-0470213	622	9-9892215	20
12	9-6449456	2566	10-3539343	9-6906667	3180	10-3079781	10-0470833	622	9-9891598	20
13	9-6452042	2565	10-3535357	9-6910411	3187	10-3076582	10-0471457	622	9-9890981	20
14	9-6454628	2562	10-3531371	9-6914155	3185	10-3073383	10-0472080	623	9-9890364	20
15	9-6457214	2561	10-3527385	9-6917899	3184	10-3070184	10-0472703	623	9-9889747	20
16	9-6459800	2559	10-3523399	9-6921643	3183	10-3066985	10-0473326	624	9-9889130	20
17	9-6462386	2557	10-3519413	9-6925387	3181	10-3063786	10-0473949	624	9-9888513	20
18	9-6464972	2555	10-3515427	9-6929131	3180	10-3060587	10-0474572	624	9-9887896	20
19	9-6467558	2554	10-3511441	9-6932875	3178	10-3057388	10-0475195	625	9-9887279	20
20	9-6470144	2551	10-3507455	9-6936619	3177	10-3054189	10-0475818	626	9-9886662	20
21	9-6472730	2550	10-3503469	9-6940363	3176	10-3050990	10-0476441	626	9-9886045	20
22	9-6475316	2547	10-3499483	9-6944107	3174	10-3047791	10-0477064	626	9-9885428	20
23	9-6477902	2546	10-3495497	9-6947851	3173	10-3044592	10-0477687	627	9-9884811	20
24	9-6480488	2544	10-3491511	9-6951595	3172	10-3041393	10-0478310	628	9-9884194	20
25	9-6483074	2542	10-3487525	9-6955339	3170	10-3038194	10-0478933	627	9-9883577	20
26	9-6485660	2541	10-3483539	9-6959083	3168	10-3034995	10-0479556	629	9-9882960	20
27	9-6488246	2538	10-3479553	9-6962827	3167	10-3031796	10-0480179	628	9-9882343	20
28	9-6490832	2537	10-3475567	9-6966571	3166	10-3028597	10-0480802	630	9-9881726	20
29	9-6493418	2534	10-3471581	9-6970315	3165	10-3025398	10-0481425	629	9-9881109	20
30	9-6496004	2533	10-3467595	9-6974059	3163	10-3022199	10-0482048	631	9-9880492	20
31	9-6498590	2531	10-3463609	9-6977803	3161	10-3018999	10-0482671	630	9-9879875	20
32	9-6501176	2530	10-3459623	9-6981547	3160	10-3015800	10-0483294	631	9-9879258	20
33	9-6503762	2527	10-3455637	9-6985291	3159	10-3012601	10-0483917	631	9-9878641	20
34	9-6506348	2525	10-3451651	9-6989035	3158	10-3009402	10-0484540	632	9-9878024	20
35	9-6508934	2524	10-3447665	9-6992779	3156	10-3006203	10-0485163	632	9-9877407	20
36	9-6511520	2522	10-3443679	9-6996523	3154	10-3003004	10-0485786	632	9-9876790	20
37	9-6514106	2520	10-3439693	9-6999267	3154	10-3000000	10-0486409	634	9-9876173	20
38	9-6516692	2518	10-3435707	9-7003011	3152	10-2996797	10-0487032	634	9-9875556	20
39	9-6519278	2517	10-3431721	9-7006755	3150	10-2993594	10-0487655	634	9-9874939	20
40	9-6521864	2514	10-3427735	9-7010500	3150	10-2990391	10-0488278	634	9-9874322	20
41	9-6524450	2513	10-3423749	9-7014244	3147	10-2987188	10-0488901	635	9-9873705	20
42	9-6527036	2511	10-3419763	9-7017988	3147	10-2983985	10-0489524	635	9-9873088	20
43	9-6529622	2509	10-3415777	9-7021732	3146	10-2980782	10-0490147	630	9-9872471	20
44	9-6532208	2507	10-3411791	9-7025476	3144	10-2977579	10-0490770	637	9-9871854	20
45	9-6534794	2506	10-3407805	9-7029220	3142	10-2974376	10-0491393	637	9-9871237	20
46	9-6537380	2503	10-3403819	9-7032964	3141	10-2971173	10-0492016	637	9-9870620	20
47	9-6539966	2502	10-3400000	9-7036708	3140	10-2967970	10-0492639	637	9-9870003	20
48	9-6542552	2500	10-3396000	9-7040452	3139	10-2964767	10-0493262	638	9-9869386	20
49	9-6545138	2498	10-3392000	9-7044196	3137	10-2961564	10-0493885	638	9-9868769	20
50	9-6547724	2497	10-3388000	9-7047940	3135	10-2958361	10-0494508	640	9-9868152	20
51	9-6550310	2494	10-3384000	9-7051684	3135	10-2955158	10-0495131	639	9-9867535	20
52	9-6552896	2493	10-3380000	9-7055428	3133	10-2951955	10-0495754	641	9-9866918	20
53	9-6555482	2491	10-3376000	9-7059172	3132	10-2948752	10-0496377	641	9-9866301	20
54	9-6558068	2489	10-3372000	9-7062916	3130	10-2945549	10-0496999	640	9-9865684	20
55	9-6560654	2488	10-3368000	9-7066660	3129	10-2942346	10-0497622	642	9-9865067	20
56	9-6563240	2485	10-3364000	9-7070404	3128	10-2939143	10-0498245	642	9-9864450	20
57	9-6565826	2484	10-3360000	9-7074148	3125	10-2935940	10-0498868	643	9-9863833	20
58	9-6568412	2481	10-3356000	9-7077892	3125	10-2932737	10-0499491	643	9-9863216	20
59	9-6570998	2481	10-3352000	9-7081636	3124	10-2929534	10-0500114	643	9-9862599	20
60	9-6573584	2478	10-3348000	9-7085380	3122	10-2926331	10-0500737	644	9-9861982	20
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

63 Deg.

	Sine	Diff.	Co-sec.	Tang.	Diff.	Cotang.	Secant	D.	Co-sine	
0	9-6870488	2478	10-3428538	9-7071688	3122	10-2928341	10-0801181	644	9-9488808	60
1	9-6872946	2477	10-3427064	9-7074781	3121	10-2928319	10-0801838	644	9-9489168	59
2	9-6875483	2475	10-3424577	9-7077908	3120	10-2928308	10-0802479	645	9-9489521	58
3	9-6877898	2473	10-3422102	9-7081022	3119	10-2928297	10-0803124	646	9-9489876	57
4	9-6880371	2471	10-3419638	9-7084141	3117	10-2928286	10-0803770	645	9-9490230	56
5	9-6882842	2470	10-3417178	9-7087258	3116	10-2928274	10-0804415	647	9-9490585	55
6	9-6885312	2468	10-3414698	9-7090374	3114	10-2928263	10-0805068	646	9-9490940	54
7	9-6887780	2466	10-3412220	9-7093488	3113	10-2928251	10-0805718	647	9-9491295	53
8	9-6890246	2464	10-3409754	9-7096601	3112	10-2928239	10-0806365	648	9-9491650	52
9	9-6892710	2463	10-3407290	9-7099713	3111	10-2928227	10-0807003	648	9-9491997	51
10	9-6895173	2460	10-3404827	9-7102824	3109	10-2928216	10-0807651	649	9-9492349	50
11	9-6897633	2460	10-3402367	9-7105933	3108	10-2928204	10-0808290	649	9-9492700	49
12	9-6900093	2457	10-3399907	9-7109041	3107	10-2928192	10-0808939	649	9-9493051	48
13	9-6902550	2455	10-3397450	9-7112148	3106	10-2928180	10-0809588	650	9-9493402	47
14	9-6905005	2454	10-3394995	9-7115254	3104	10-2928168	10-0810234	651	9-9493752	46
15	9-6907459	2452	10-3392541	9-7118358	3103	10-2928156	10-0810880	651	9-9494101	45
16	9-6909911	2450	10-3390089	9-7121461	3101	10-2928144	10-0811525	651	9-9494450	44
17	9-6912361	2449	10-3387639	9-7124562	3100	10-2928132	10-0812171	652	9-9494799	43
18	9-6914810	2447	10-3385190	9-7127663	3099	10-2928120	10-0812816	652	9-9495147	42
19	9-6917257	2445	10-3382743	9-7130761	3098	10-2928108	10-0813461	653	9-9495495	41
20	9-6919702	2443	10-3380298	9-7133858	3097	10-2928096	10-0814105	653	9-9495842	40
21	9-6922145	2441	10-3377855	9-7136955	3095	10-2928084	10-0814751	654	9-9496189	39
22	9-6924586	2440	10-3375414	9-7140051	3094	10-2928072	10-0815396	654	9-9496535	38
23	9-6927026	2438	10-3372974	9-7143145	3092	10-2928060	10-0816041	654	9-9496881	37
24	9-6929464	2436	10-3370536	9-7146237	3092	10-2928048	10-0816687	655	9-9497227	36
25	9-6931900	2435	10-3368100	9-7149329	3090	10-2928036	10-0817332	655	9-9497572	35
26	9-6934335	2433	10-3365663	9-7152419	3089	10-2928024	10-0817978	656	9-9497916	34
27	9-6936768	2431	10-3363229	9-7155508	3087	10-2928012	10-0818624	656	9-9498260	33
28	9-6939199	2429	10-3360800	9-7158595	3087	10-2928000	10-0819269	657	9-9498604	32
29	9-6941628	2428	10-3358372	9-7161682	3085	10-2927988	10-0819915	658	9-9498947	31
30	9-6944056	2426	10-3355944	9-7164767	3084	10-2927976	10-0820561	658	9-9499290	30
31	9-6946482	2424	10-3353518	9-7167851	3083	10-2927964	10-0821207	658	9-9499633	29
32	9-6948906	2423	10-3351094	9-7170935	3081	10-2927952	10-0821852	659	9-9499975	28
33	9-6951329	2420	10-3348671	9-7174018	3080	10-2927940	10-0822498	659	9-9500317	27
34	9-6953749	2419	10-3346251	9-7177094	3079	10-2927928	10-0823143	660	9-9500659	26
35	9-6956168	2418	10-3343832	9-7180173	3078	10-2927916	10-0823789	660	9-9500999	25
36	9-6958586	2416	10-3341414	9-7183251	3076	10-2927904	10-0824434	661	9-9501339	24
37	9-6961001	2414	10-3338999	9-7186327	3075	10-2927892	10-0825079	661	9-9501678	23
38	9-6963415	2413	10-3336583	9-7189402	3074	10-2927880	10-0825724	661	9-9502017	22
39	9-6965828	2410	10-3334179	9-7192476	3073	10-2927868	10-0826369	663	9-9502355	21
40	9-6968238	2409	10-3331763	9-7195549	3071	10-2927856	10-0827013	663	9-9502693	20
41	9-6970647	2407	10-3329353	9-7198620	3070	10-2927844	10-0827658	663	9-9503030	19
42	9-6973054	2405	10-3326946	9-7201690	3069	10-2927832	10-0828303	664	9-9503367	18
43	9-6975459	2404	10-3324541	9-7204759	3068	10-2927820	10-0828948	664	9-9503703	17
44	9-6977863	2402	10-3322137	9-7207827	3065	10-2927808	10-0829593	664	9-9504039	16
45	9-6980265	2400	10-3319735	9-7210893	3065	10-2927796	10-0830238	665	9-9504375	15
46	9-6982665	2399	10-3317335	9-7213958	3064	10-2927784	10-0830883	665	9-9504710	14
47	9-6985064	2397	10-3314936	9-7217023	3063	10-2927772	10-0831528	666	9-9505045	13
48	9-6987461	2395	10-3312539	9-7220088	3062	10-2927760	10-0832173	666	9-9505380	12
49	9-6989856	2394	10-3310144	9-7223147	3060	10-2927748	10-0832818	667	9-9505715	11
50	9-6992250	2392	10-3307750	9-7226207	3059	10-2927736	10-0833463	667	9-9506049	10
51	9-6994645	2390	10-3305358	9-7229266	3058	10-2927724	10-0834108	668	9-9506384	9
52	9-6997039	2388	10-3302968	9-7232324	3057	10-2927712	10-0834753	668	9-9506718	8
53	9-6999430	2387	10-3300580	9-7235381	3055	10-2927700	10-0835398	669	9-9507052	7
54	9-7001827	2385	10-3298193	9-7238436	3054	10-2927688	10-0836043	669	9-9507386	6
55	9-7004219	2384	10-3295808	9-7241490	3053	10-2927676	10-0836688	670	9-9507719	5
56	9-7006616	2383	10-3293424	9-7244543	3052	10-2927664	10-0837333	670	9-9508053	4
57	9-7009008	2380	10-3291042	9-7247595	3051	10-2927652	10-0837978	670	9-9508386	3
58	9-7011396	2378	10-3288663	9-7250646	3049	10-2927640	10-0838623	671	9-9508719	2
59	9-7013781	2377	10-3286284	9-7253695	3048	10-2927628	10-0839268	672	9-9509052	1
60	9-7016163	2375	10-3283907	9-7256744	3047	10-2927616	10-0839913	673	9-9509385	0
Co-sine	Diff.	Secant	Cotang.	Diff.	Tang.	Co-sec.	D.	Sine		

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9 6719083	2375	10 3283907	9 7356744	3047	10 2743286	10 0540551	679	9 9458948	80
1	9 6719468	2373	10 3281632	9 7359791	3046	10 2740800	10 0541323	678	9 9458677	80
2	9 6719841	2372	10 3279158	9 7362837	3044	10 2737163	10 0541995	677	9 9458305	80
3	9 6720213	2370	10 3276787	9 7365881	3044	10 2734119	10 0542668	673	9 9457932	87
4	9 6720583	2369	10 3274417	9 7368925	3043	10 2731075	10 0543341	674	9 9457560	88
5	9 6720952	2367	10 3272048	9 7371967	3041	10 2728033	10 0544015	675	9 9457188	88
6	9 6721319	2365	10 3269681	9 7375008	3040	10 2724982	10 0544690	674	9 9456816	84
7	9 6721684	2363	10 3267316	9 7378048	3039	10 2721939	10 0545364	676	9 9456443	83
8	9 6722047	2362	10 3264953	9 7381087	3037	10 2718913	10 0546040	675	9 9456069	82
9	9 6722408	2360	10 3262591	9 7384124	3037	10 2715876	10 0546715	676	9 9455695	81
10	9 6722769	2359	10 3260231	9 7387161	3035	10 2712830	10 0547391	677	9 9455320	80
11	9 6723128	2357	10 3257872	9 7390198	3034	10 2709804	10 0548068	677	9 9454948	49
12	9 6723485	2355	10 3255515	9 7393230	3033	10 2706770	10 0548744	678	9 9454574	48
13	9 6723840	2354	10 3253160	9 7396263	3032	10 2703737	10 0549423	678	9 9454200	47
14	9 6724194	2352	10 3250806	9 7399295	3030	10 2700705	10 0550101	679	9 9453826	46
15	9 6724546	2350	10 3248454	9 7402325	3029	10 2697672	10 0550779	679	9 9453452	45
16	9 6724896	2349	10 3246104	9 7405354	3029	10 2694640	10 0551459	679	9 9453078	44
17	9 6725245	2347	10 3243755	9 7408383	3027	10 2691612	10 0552138	680	9 9452703	43
18	9 6725592	2345	10 3241408	9 7411410	3026	10 2688580	10 0552818	681	9 9452328	42
19	9 6725937	2344	10 3239063	9 7414436	3024	10 2685564	10 0553499	681	9 9451954	41
20	9 6726281	2342	10 3236719	9 7417460	3024	10 2682540	10 0554179	682	9 9451580	40
21	9 6726623	2340	10 3234377	9 7420484	3022	10 2679516	10 0554861	682	9 9451206	39
22	9 6726963	2339	10 3232037	9 7423508	3021	10 2676494	10 0555543	682	9 9450832	38
23	9 6727302	2338	10 3229698	9 7426532	3020	10 2673473	10 0556225	683	9 9450458	37
24	9 6727640	2335	10 3227350	9 7429557	3019	10 2670453	10 0556906	683	9 9450084	36
25	9 6727976	2334	10 3225002	9 7432582	3018	10 2667434	10 0557581	684	9 9449710	35
26	9 6728311	2333	10 3222651	9 7435604	3017	10 2664416	10 0558262	684	9 9449336	34
27	9 6728644	2330	10 3220302	9 7438621	3015	10 2661399	10 0558945	685	9 9448961	33
28	9 6728977	2329	10 3217958	9 7441636	3015	10 2658384	10 0559624	685	9 9448587	32
29	9 6729309	2328	10 3215610	9 7444651	3013	10 2655369	10 0560309	686	9 9448213	31
30	9 6729639	2326	10 3213267	9 7447664	3012	10 2652356	10 0561001	686	9 9447839	30
31	9 6729965	2324	10 3210925	9 7450676	3011	10 2649344	10 0561701	687	9 9447465	29
32	9 6730289	2323	10 3208582	9 7453687	3010	10 2646333	10 0562402	687	9 9447091	28
33	9 6730612	2321	10 3206239	9 7456697	3008	10 2643323	10 0563103	687	9 9446717	27
34	9 6730933	2320	10 3203897	9 7459708	3006	10 2640315	10 0563806	689	9 9446343	26
35	9 6731253	2317	10 3201557	9 7462719	3005	10 2637307	10 0564511	688	9 9445969	25
36	9 6731570	2317	10 3199214	9 7465729	3006	10 2634301	10 0565219	689	9 9445595	24
37	9 6731887	2314	10 3196873	9 7468738	3004	10 2631295	10 0565928	689	9 9445221	23
38	9 6732202	2313	10 3194530	9 7471749	3003	10 2628289	10 0566638	690	9 9444847	22
39	9 6732516	2312	10 3192186	9 7474757	3002	10 2625288	10 0567349	690	9 9444473	21
40	9 6732829	2310	10 3190184	9 7477771	3001	10 2622290	10 0568060	691	9 9444099	20
41	9 6733142	2308	10 3187874	9 7480785	2999	10 2619295	10 0568772	691	9 9443725	19
42	9 6733454	2307	10 3185565	9 7483797	2998	10 2616296	10 0569486	692	9 9443351	18
43	9 6733767	2305	10 3183256	9 7486813	2997	10 2613297	10 0570200	693	9 9442977	17
44	9 6734079	2303	10 3180954	9 7489827	2997	10 2610299	10 0570915	692	9 9442603	16
45	9 6734390	2302	10 3178651	9 7492840	2996	10 2607293	10 0571637	694	9 9442229	15
46	9 6734701	2301	10 3176349	9 7495853	2994	10 2604298	10 0572351	694	9 9441855	14
47	9 6735012	2299	10 3174048	9 7498866	2993	10 2601304	10 0573065	694	9 9441481	13
48	9 6735322	2298	10 3171746	9 7501879	2992	10 2598311	10 0573780	695	9 9441107	12
49	9 6735632	2295	10 3169442	9 7504891	2991	10 2595319	10 0574494	695	9 9440733	11
50	9 6735943	2294	10 3167137	9 7507903	2990	10 2592328	10 0575209	695	9 9440359	10
51	9 6736253	2293	10 3164833	9 7510916	2988	10 2589338	10 0575924	697	9 9440000	9
52	9 6736563	2290	10 3162527	9 7513928	2986	10 2586348	10 0576639	696	9 9439641	8
53	9 6736873	2290	10 3160220	9 7516939	2986	10 2583358	10 0577357	697	9 9439282	7
54	9 6737183	2287	10 3157915	9 7519951	2985	10 2580367	10 0578071	698	9 9438923	6
55	9 6737492	2286	10 3155603	9 7522962	2985	10 2577379	10 0578785	698	9 9438564	5
56	9 6737802	2285	10 3153291	9 7525974	2983	10 2574390	10 0579500	699	9 9438205	4
57	9 6738111	2283	10 3150982	9 7528987	2982	10 2571402	10 0580215	699	9 9437846	3
58	9 6738421	2281	10 3148674	9 7531999	2981	10 2568414	10 0580930	699	9 9437487	2
59	9 6738730	2280	10 3146368	9 7535012	2980	10 2565426	10 0581645	700	9 9437128	1
60	9 6739039	2279	10 3144063	9 7538025	2979	10 2562438	10 0582360	701	9 9436769	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

29 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9 6055712	2270	10-3144288	9-7437520	2279	10-2552480	10-0581807	701	9-9418193	60
1	9 6055791	2276	10-3142909	9-7440480	2277	10-2552501	10-0583308	701	9-9417402	59
2	9 6055867	2275	10-3139733	9-7443476	2277	10-2552524	10-0583810	701	9-9416701	58
3	9 6055942	2274	10-3137458	9-7446453	2275	10-2552547	10-0583910	702	9-9416000	57
4	9 6056016	2272	10-3135184	9-7449428	2275	10-2552572	10-0584012	703	9-9415308	56
5	9 6056088	2271	10-3132912	9-7452403	2273	10-2552597	10-0584515	703	9-9414615	55
6	9 6056159	2260	10-3130641	9-7455376	2273	10-2552624	10-0585018	703	9-9413922	54
7	9 6056229	2267	10-3128372	9-7458349	2271	10-2552651	10-0585521	704	9-9413229	53
8	9 6056298	2265	10-3126103	9-7461320	2270	10-2552678	10-0586025	704	9-9412537	52
9	9 6056361	2264	10-3123836	9-7464290	2269	10-2552707	10-0586529	705	9-9411841	51
10	9 6056424	2263	10-3121570	9-7467259	2268	10-2552734	10-0587034	705	9-9411146	50
11	9 6056486	2261	10-3119312	9-7470227	2267	10-2552763	10-0587539	706	9-9410451	49
12	9 6056548	2260	10-3117051	9-7473194	2266	10-2552790	10-0588045	707	9-9409755	48
13	9 6056609	2258	10-3114791	9-7476160	2265	10-2552818	10-0588550	707	9-9409058	47
14	9 6056670	2256	10-3112533	9-7479125	2264	10-2552847	10-0589056	708	9-9408362	46
15	9 6056731	2255	10-3110277	9-7482089	2262	10-2552875	10-0589563	707	9-9407665	45
16	9 6056791	2254	10-3108022	9-7485052	2261	10-2552904	10-0590070	708	9-9406967	44
17	9 6056852	2252	10-3105768	9-7488013	2261	10-2552931	10-0590578	709	9-9406269	43
18	9 6056912	2250	10-3103514	9-7490974	2260	10-2552959	10-0591086	709	9-9405571	42
19	9 6056973	2249	10-3101260	9-7493934	2259	10-2552986	10-0591595	710	9-9404871	41
20	9 6057033	2248	10-3099017	9-7496892	2258	10-2553013	10-0592104	710	9-9404171	40
21	9 6057093	2246	10-3096763	9-7499850	2256	10-2553040	10-0592613	711	9-9403471	39
22	9 6057154	2245	10-3094509	9-7502808	2256	10-2553067	10-0593123	711	9-9402770	38
23	9 6057214	2243	10-3092256	9-7505762	2254	10-2553094	10-0593633	711	9-9402069	37
24	9 6057274	2241	10-3090003	9-7508716	2253	10-2553121	10-0594143	713	9-9401368	36
25	9 6057334	2240	10-3087750	9-7511669	2253	10-2553148	10-0594653	712	9-9400667	35
26	9 6057394	2238	10-3085497	9-7514622	2252	10-2553175	10-0595163	713	9-9400000	34
27	9 6057454	2236	10-3083243	9-7517573	2250	10-2553202	10-0595673	714	9-9399299	33
28	9 6057514	2235	10-3080990	9-7520523	2249	10-2553229	10-0596183	714	9-9398598	32
29	9 6057574	2233	10-3078736	9-7523472	2248	10-2553256	10-0596693	714	9-9397897	31
30	9 6057634	2232	10-3076482	9-7526420	2248	10-2553283	10-0597203	715	9-9397196	30
31	9 6057694	2231	10-3074229	9-7529368	2246	10-2553310	10-0597713	716	9-9396495	29
32	9 6057754	2229	10-3071974	9-7532316	2246	10-2553337	10-0598223	716	9-9395794	28
33	9 6057814	2228	10-3069720	9-7535265	2244	10-2553364	10-0598733	716	9-9395093	27
34	9 6057874	2226	10-3067466	9-7538213	2243	10-2553391	10-0599243	717	9-9394392	26
35	9 6057934	2224	10-3065212	9-7541161	2242	10-2553418	10-0599753	717	9-9393691	25
36	9 6057994	2223	10-3062958	9-7544109	2241	10-2553445	10-0600263	718	9-9392990	24
37	9 6058054	2222	10-3060704	9-7547057	2240	10-2553472	10-0600773	719	9-9392289	23
38	9 6058114	2220	10-3058450	9-7550005	2239	10-2553499	10-0601283	719	9-9391588	22
39	9 6058174	2219	10-3056196	9-7552953	2238	10-2553526	10-0601793	719	9-9390887	21
40	9 6058234	2217	10-3053942	9-7555901	2237	10-2553553	10-0602303	720	9-9390186	20
41	9 6058294	2215	10-3051688	9-7558849	2235	10-2553580	10-0602813	720	9-9389485	19
42	9 6058354	2214	10-3049434	9-7561797	2235	10-2553607	10-0603323	721	9-9388784	18
43	9 6058414	2213	10-3047180	9-7564745	2234	10-2553634	10-0603833	721	9-9388083	17
44	9 6058474	2211	10-3044926	9-7567693	2233	10-2553661	10-0604343	722	9-9387382	16
45	9 6058534	2210	10-3042672	9-7570641	2232	10-2553688	10-0604853	722	9-9386681	15
46	9 6058594	2208	10-3040418	9-7573589	2231	10-2553715	10-0605363	723	9-9385980	14
47	9 6058654	2206	10-3038164	9-7576537	2230	10-2553742	10-0605873	723	9-9385279	13
48	9 6058714	2205	10-3035910	9-7579485	2229	10-2553769	10-0606383	724	9-9384578	12
49	9 6058774	2204	10-3033656	9-7582433	2228	10-2553796	10-0606893	724	9-9383877	11
50	9 6058834	2202	10-3031402	9-7585381	2226	10-2553823	10-0607403	725	9-9383176	10
51	9 6058894	2201	10-3029148	9-7588329	2226	10-2553850	10-0607913	725	9-9382475	9
52	9 6058954	2199	10-3026894	9-7591277	2225	10-2553877	10-0608423	726	9-9381774	8
53	9 6059014	2198	10-3024640	9-7594225	2224	10-2553904	10-0608933	726	9-9381073	7
54	9 6059074	2196	10-3022386	9-7597173	2223	10-2553931	10-0609443	727	9-9380372	6
55	9 6059134	2195	10-3020132	9-7600121	2222	10-2553958	10-0609953	727	9-9379671	5
56	9 6059194	2193	10-3017878	9-7603069	2221	10-2553985	10-0610463	728	9-9378970	4
57	9 6059254	2192	10-3015624	9-7606017	2220	10-2554012	10-0610973	728	9-9378269	3
58	9 6059314	2190	10-3013370	9-7608965	2219	10-2554039	10-0611483	729	9-9377568	2
59	9 6059374	2189	10-3011116	9-7611913	2218	10-2554066	10-0611993	729	9-9376867	1
60	9 6059434	2187	10-3008862	9-7614861	2217	10-2554093	10-0612503	730	9-9376166	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

60 Deg.

30 Deg.

'	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	'
0	0.5000000	2187	10.3010300	0.7614394	2917	10.2155896	10.1624684	729	0.6357586	00
1	0.5001687	2188	10.3008113	0.7617811	2916	10.2153289	10.1622453	730	0.6354577	01
2	0.5003373	2188	10.3005927	0.7621227	2915	10.2150682	10.1620222	731	0.6351568	02
3	0.5005058	2188	10.3003742	0.7624643	2914	10.2148075	10.1617991	732	0.6348559	03
4	0.5006744	2188	10.3001556	0.7628059	2913	10.2145468	10.1615760	733	0.6345550	04
5	0.5008429	2189	10.2999370	0.7631475	2912	10.2142861	10.1613529	734	0.6342541	05
6	0.5010114	2189	10.2997184	0.7634891	2911	10.2140254	10.1611298	735	0.6339532	06
7	0.5011799	2177	10.2995000	0.7638307	2910	10.2137647	10.1609067	736	0.6336523	07
8	0.5013484	2176	10.2992814	0.7641723	2910	10.2135040	10.1606836	737	0.6333514	08
9	0.5015169	2174	10.2990628	0.7645139	2908	10.2132433	10.1604605	738	0.6330505	09
10	0.5016854	2173	10.2988442	0.7648555	2907	10.2129826	10.1602374	739	0.6327496	10
11	0.5018539	2171	10.2986256	0.7651971	2907	10.2127219	10.1600143	740	0.6324487	11
12	0.5020224	2170	10.2984070	0.7655387	2906	10.2124612	10.1597912	741	0.6321478	12
13	0.5021909	2168	10.2981884	0.7658803	2904	10.2122005	10.1595681	742	0.6318469	13
14	0.5023594	2167	10.2979698	0.7662219	2904	10.2119398	10.1593450	743	0.6315460	14
15	0.5025279	2166	10.2977512	0.7665635	2902	10.2116791	10.1591219	744	0.6312451	15
16	0.5026964	2164	10.2975326	0.7669051	2902	10.2114184	10.1588988	745	0.6309442	16
17	0.5028649	2162	10.2973140	0.7672467	2900	10.2111577	10.1586757	746	0.6306433	17
18	0.5030334	2162	10.2970954	0.7675883	2900	10.2108970	10.1584526	747	0.6303424	18
19	0.5032019	2160	10.2968768	0.7679299	2899	10.2106363	10.1582295	748	0.6300415	19
20	0.5033704	2159	10.2966582	0.7682715	2898	10.2103756	10.1580064	749	0.6297406	20
21	0.5035389	2157	10.2964396	0.7686131	2898	10.2101149	10.1577833	750	0.6294397	21
22	0.5037074	2155	10.2962210	0.7689547	2896	10.2098542	10.1575602	751	0.6291388	22
23	0.5038759	2154	10.2960024	0.7692963	2895	10.2095935	10.1573371	752	0.6288379	23
24	0.5040444	2152	10.2957838	0.7696379	2894	10.2093328	10.1571140	753	0.6285370	24
25	0.5042129	2152	10.2955652	0.7699795	2893	10.2090721	10.1568909	754	0.6282361	25
26	0.5043814	2149	10.2953466	0.7703211	2892	10.2088114	10.1566678	755	0.6279352	26
27	0.5045499	2149	10.2951280	0.7706627	2891	10.2085507	10.1564447	756	0.6276343	27
28	0.5047184	2148	10.2949094	0.7710043	2890	10.2082900	10.1562216	757	0.6273334	28
29	0.5048869	2146	10.2946908	0.7713459	2889	10.2080293	10.1559985	758	0.6270325	29
30	0.5050554	2146	10.2944722	0.7716875	2888	10.2077686	10.1557754	759	0.6267316	30
31	0.5052239	2144	10.2942536	0.7720291	2887	10.2075079	10.1555523	760	0.6264307	31
32	0.5053924	2142	10.2940350	0.7723707	2886	10.2072472	10.1553292	761	0.6261298	32
33	0.5055609	2141	10.2938164	0.7727123	2885	10.2069865	10.1551061	762	0.6258289	33
34	0.5057294	2140	10.2935978	0.7730539	2884	10.2067258	10.1548830	763	0.6255280	34
35	0.5058979	2138	10.2933792	0.7733955	2883	10.2064651	10.1546599	764	0.6252271	35
36	0.5060664	2137	10.2931606	0.7737371	2882	10.2062044	10.1544368	765	0.6249262	36
37	0.5062349	2136	10.2929420	0.7740787	2881	10.2059437	10.1542137	766	0.6246253	37
38	0.5064034	2134	10.2927234	0.7744203	2880	10.2056830	10.1539906	767	0.6243244	38
39	0.5065719	2132	10.2925048	0.7747619	2879	10.2054223	10.1537675	768	0.6240235	39
40	0.5067404	2130	10.2922862	0.7751035	2878	10.2051616	10.1535444	769	0.6237226	40
41	0.5069089	2129	10.2920676	0.7754451	2877	10.2049009	10.1533213	770	0.6234217	41
42	0.5070774	2127	10.2918490	0.7757867	2876	10.2046402	10.1530982	771	0.6231208	42
43	0.5072459	2125	10.2916304	0.7761283	2875	10.2043795	10.1528751	772	0.6228199	43
44	0.5074144	2124	10.2914118	0.7764699	2874	10.2041188	10.1526520	773	0.6225190	44
45	0.5075829	2123	10.2911932	0.7768115	2873	10.2038581	10.1524289	774	0.6222181	45
46	0.5077514	2121	10.2909746	0.7771531	2872	10.2035974	10.1522058	775	0.6219172	46
47	0.5079199	2119	10.2907560	0.7774947	2871	10.2033367	10.1519827	776	0.6216163	47
48	0.5080884	2117	10.2905374	0.7778363	2870	10.2030760	10.1517596	777	0.6213154	48
49	0.5082569	2116	10.2903188	0.7781779	2869	10.2028153	10.1515365	778	0.6210145	49
50	0.5084254	2114	10.2901002	0.7785195	2868	10.2025546	10.1513134	779	0.6207136	50
51	0.5085939	2113	10.2898816	0.7788611	2867	10.2022939	10.1510903	780	0.6204127	51
52	0.5087624	2111	10.2896630	0.7792027	2866	10.2020332	10.1508672	781	0.6201118	52
53	0.5089309	2110	10.2894444	0.7795443	2865	10.2017725	10.1506441	782	0.6198109	53
54	0.5090994	2109	10.2892258	0.7798859	2864	10.2015118	10.1504210	783	0.6195100	54
55	0.5092679	2108	10.2890072	0.7802275	2863	10.2012511	10.1501979	784	0.6192091	55
56	0.5094364	2106	10.2887886	0.7805691	2862	10.2009904	10.1499748	785	0.6189082	56
57	0.5096049	2105	10.2885700	0.7809107	2861	10.2007297	10.1497517	786	0.6186073	57
58	0.5097734	2104	10.2883514	0.7812523	2860	10.2004690	10.1495286	787	0.6183064	58
59	0.5099419	2103	10.2881328	0.7815939	2859	10.2002083	10.1493055	788	0.6180055	59
60	0.5101104	2102	10.2879142	0.7819355	2858	10.1999476	10.1490824	789	0.6177046	60
61	0.5102789	2101	10.2876956	0.7822771	2857	10.1996869	10.1488593	790	0.6174037	61
62	0.5104474	2100	10.2874770	0.7826187	2856	10.1994262	10.1486362	791	0.6171028	62
63	0.5106159	2099	10.2872584	0.7829603	2855	10.1991655	10.1484131	792	0.6168019	63
64	0.5107844	2098	10.2870398	0.7833019	2854	10.1989048	10.1481900	793	0.6165010	64
65	0.5109529	2097	10.2868212	0.7836435	2853	10.1986441	10.1479669	794	0.6162001	65
66	0.5111214	2096	10.2866026	0.7839851	2852	10.1983834	10.1477438	795	0.6158992	66
67	0.5112899	2095	10.2863840	0.7843267	2851	10.1981227	10.1475207	796	0.6155983	67
68	0.5114584	2094	10.2861654	0.7846683	2850	10.1978620	10.1472976	797	0.6152974	68
69	0.5116269	2093	10.2859468	0.7850099	2849	10.1976013	10.1470745	798	0.6149965	69
70	0.5117954	2092	10.2857282	0.7853515	2848	10.1973406	10.1468514	799	0.6146956	70
71	0.5119639	2091	10.2855096	0.7856931	2847	10.1970799	10.1466283	800	0.6143947	71
72	0.5121324	2090	10.2852910	0.7860347	2846	10.1968192	10.1464052	801	0.6140938	72
73	0.5123009	2089	10.2850724	0.7863763	2845	10.1965585	10.1461821	802	0.6137929	73
74	0.5124694	2088	10.2848538	0.7867179	2844	10.1962978	10.1459590	803	0.6134920	74
75	0.5126379	2087	10.2846352	0.7870595	2843	10.1960371	10.1457359	804	0.6131911	75
76	0.5128064	2086	10.2844166	0.7874011	2842	10.1957764	10.1455128	805	0.6128902	76
77	0.5129749	2085	10.2841980	0.7877427	2841	10.1955157	10.1452897	806	0.6125893	77
78	0.5131434	2084	10.2839794	0.7880843	2840	10.1952550	10.1450666	807	0.6122884	78
79	0.5133119	2083	10.2837608	0.7884259	2839	10.1949943	10.1448435	808	0.6119875	79
80	0.5134804	2082	10.2835422	0.7887675	2838	10.1947336	10.1446204	809	0.6116866	80
81	0.5136489	2081	10.2833236	0.7891091	2837	10.1944729	10.1443973	810	0.6113857	81
82	0.5138174	2080	10.2831050	0.7894507	2836	10.1942122	10.1441742	811	0.6110848	82
83	0.5139859	2079	10.2828864	0.7897923	2835	10.1939515	10.1439511	812	0.6107839	83
84	0.5141544	2078	10.2826678	0.7901339	2834	10.1936908	10.1437280	813	0.6104830	84
85	0.5143229	2077	10.2824492	0.7904755	2833	10.1934301	10.1435049	814	0.6101821	85
86	0.5144914	2076	10.2822306	0.7908171	2832	10.1931694	10.1432818	815	0.6098812	86
87	0.5146599	2075	10.2820120	0.7911587	2831	10.1929087	10.1430587	816	0.6095803	87
88	0.5148284	2074	10.2817934	0.7915003	2830	10.1926480	10.1428356	817	0.6092794	88
89	0.5149969	2073	10.2815748	0.7918419	2829	10.1923873	10.1426125	818	0.6089785	89
90	0.5151654	2072	10.2813562	0.7921835	2828	10.1921266	10.1423894	819	0.6086776	90
91	0.5153339	2071	10.2811376	0.7925251	2827	10.1918659	10.1421663	820	0.6083767	91
92	0.5155024	2070	10.2809190							

31 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	97118383	9108	10-2881607	9-7787737	2863	10-2212983	10-0002944	758	9-9330686	60
1	97119495	9101	10-2879505	9-7790599	2860	10-2200401	10-0070103	760	9-9332987	59
2	97121239	9099	10-2877404	9-7793459	2859	10-2200654	10-0070683	761	9-9333917	58
3	97123406	9097	10-2875305	9-7796318	2859	10-2203689	10-0071684	760	9-9332876	57
4	97125798	9097	10-2873208	9-7799177	2857	10-2200682	10-0072384	763	9-9332761	56
5	97128389	9094	10-2871111	9-7802034	2857	10-2197995	10-0073148	762	9-9332154	55
6	97130683	9094	10-2869017	9-7804891	2856	10-2195109	10-0073908	762	9-9330692	54
7	97133077	9092	10-2866923	9-7807747	2855	10-2192223	10-0074670	763	9-9328330	53
8	97135189	9091	10-2864831	9-7810608	2854	10-2189339	10-0075433	763	9-9324567	52
9	97137360	9089	10-2862740	9-7813486	2853	10-2186454	10-0076196	764	9-9323904	51
10	97139349	9088	10-2860651	9-7816390	2853	10-2183591	10-0076960	764	9-9323040	50
11	97141437	9087	10-2858563	9-7819169	2851	10-2180638	10-0077724	765	9-9322276	49
12	97143524	9085	10-2856476	9-7822013	2851	10-2177987	10-0078489	766	9-9321511	48
13	97144690	9084	10-2854391	9-7824864	2849	10-2175136	10-0079254	766	9-9320746	47
14	97146833	9083	10-2852307	9-7827713	2849	10-2172287	10-0080020	767	9-9319980	46
15	97148976	9081	10-2850224	9-7830562	2848	10-2169438	10-0080787	766	9-9318213	45
16	97151167	9080	10-2848143	9-7833410	2848	10-2166589	10-0081553	768	9-9318447	44
17	97153337	9078	10-2846063	9-7836268	2848	10-2163742	10-0082321	768	9-9317679	43
18	97155501	9077	10-2843985	9-7839104	2845	10-2160896	10-0083089	768	9-9316911	42
19	97157668	9076	10-2841906	9-7841949	2845	10-2158051	10-0083857	769	9-9316143	41
20	97159818	9075	10-2839832	9-7844794	2844	10-2155203	10-0084626	769	9-9315374	40
21	97161943	9073	10-2837757	9-7847638	2843	10-2152352	10-0085396	770	9-9314606	39
22	97164116	9071	10-2835684	9-7850481	2843	10-2149519	10-0086165	770	9-9313835	38
23	97166367	9071	10-2833613	9-7853323	2841	10-2146677	10-0086935	771	9-9313065	37
24	97168468	9068	10-2831542	9-7856164	2840	10-2143836	10-0087708	772	9-9312294	36
25	97170529	9068	10-2829474	9-7859004	2840	10-2140995	10-0088476	772	9-9311522	35
26	97172594	9066	10-2827406	9-7861844	2838	10-2138156	10-0089250	772	9-9310750	34
27	97174690	9065	10-2825340	9-7864682	2838	10-2135318	10-0089922	773	9-9309978	33
28	97176725	9064	10-2823275	9-7867520	2837	10-2132480	10-0090695	773	9-9309206	32
29	97178789	9062	10-2821211	9-7870357	2836	10-2129643	10-0091468	774	9-9308439	31
30	97180851	9061	10-2819149	9-7873193	2835	10-2126807	10-0092242	775	9-9307672	30
31	97182912	9059	10-2817088	9-7876028	2835	10-2123973	10-0093017	774	9-9306903	29
32	97184971	9059	10-2815029	9-7878863	2833	10-2121137	10-0093791	776	9-9306139	28
33	97187030	9056	10-2812970	9-7881698	2833	10-2118304	10-0094567	776	9-9305373	27
34	97189096	9056	10-2810914	9-7884539	2832	10-2115471	10-0095343	776	9-9304607	26
35	97191148	9054	10-2808858	9-7887381	2831	10-2112639	10-0096119	777	9-9303841	25
36	97193196	9053	10-2806804	9-7890222	2831	10-2109806	10-0096896	778	9-9303074	24
37	97195249	9051	10-2804751	9-7893063	2829	10-2106977	10-0097674	778	9-9302308	23
38	97197300	9050	10-2802700	9-7895903	2829	10-2104148	10-0098453	778	9-9301542	22
39	97199349	9049	10-2800650	9-7898744	2827	10-2101319	10-0099233	779	9-9300776	21
40	97201399	9048	10-2798601	9-7901586	2827	10-2098489	10-0099999	779	9-9299991	20
41	97203447	9046	10-2796553	9-7904433	2826	10-2095663	10-0099968	780	9-9299219	19
42	97205493	9045	10-2794507	9-7907281	2826	10-2092839	10-0099939	781	9-9298448	18
43	97207538	9043	10-2792463	9-7910127	2824	10-2090013	10-0099910	781	9-9297677	17
44	97209581	9042	10-2790419	9-7912981	2824	10-2087189	10-0099882	781	9-9296907	16
45	97211623	9041	10-2788377	9-7915835	2822	10-2084365	10-0099854	782	9-9296137	15
46	97213664	9040	10-2786336	9-7918688	2822	10-2081542	10-0099826	783	9-9295367	14
47	97215704	9038	10-2784296	9-7921540	2821	10-2078720	10-0099798	783	9-9294594	13
48	97217749	9037	10-2782258	9-7924391	2820	10-2075899	10-0099770	784	9-9293821	12
49	97219797	9036	10-2780221	9-7927242	2820	10-2073079	10-0099743	784	9-9293048	11
50	97221814	9034	10-2778186	9-7930094	2819	10-2070259	10-0099717	784	9-9292273	10
51	97223848	9033	10-2776153	9-7932946	2818	10-2067440	10-0099691	785	9-9291499	9
52	97225881	9032	10-2774119	9-7935798	2817	10-2064622	10-0099665	786	9-9290724	8
53	97227913	9030	10-2772087	9-7938650	2816	10-2061805	10-0099639	786	9-9289949	7
54	97229943	9029	10-2770057	9-7941501	2816	10-2058989	10-0099613	787	9-9289174	6
55	97231978	9028	10-2768028	9-7944353	2814	10-2056173	10-0099587	787	9-9288399	5
56	97234000	9026	10-2766000	9-7947204	2814	10-2053358	10-0099561	787	9-9287624	4
57	97236029	9023	10-2763974	9-7950055	2813	10-2050545	10-0099535	788	9-9286849	3
58	97238055	9024	10-2761949	9-7952906	2813	10-2047732	10-0099509	788	9-9286074	2
59	97240078	9023	10-2759925	9-7955758	2811	10-2044919	10-0099483	789	9-9285299	1
60	97242097	9021	10-2757903	9-7958609	2811	10-2042106	10-0099457	790	9-9284524	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

22 Deg.

	Sine	Diff.	Co-sec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	9734907	2081	10-2757903	9735769	2011	10-2048106	10-0715795	790	97350305	60
1	97349116	2090	10-2758869	97360703	2010	10-2039297	10-0716585	790	97350315	59
2	97349136	2018	10-2759862	97363513	2009	10-2030487	10-0717375	791	97350325	58
3	97349156	2018	10-2751844	97366323	2008	10-2021678	10-0718165	791	97350335	57
4	97350174	2015	10-2749836	97369130	2008	10-2012869	10-0718957	792	97350345	56
5	97350190	2015	10-2747811	97371938	2007	10-2004060	10-0719749	792	97350355	55
6	97350204	2013	10-2745796	97374745	2006	10-2003255	10-0720541	793	97350365	54
7	97350217	2012	10-2743783	97377551	2005	10-2002449	10-0721334	793	97350375	53
8	97350229	2011	10-2741771	97380358	2004	10-2019844	10-0722127	794	97350385	52
9	97350240	2009	10-2739760	97383160	2004	10-2016840	10-0722921	794	97350395	51
10	97350249	2008	10-2737751	97385964	2003	10-2014036	10-0723715	795	97350405	50
11	97350257	2007	10-2735743	97388767	2002	10-2011233	10-0724510	795	97350415	49
12	97350264	2005	10-2733736	97391569	2001	10-2008431	10-0725305	796	97350425	48
13	97350269	2004	10-2731731	97394370	2000	10-2005630	10-0726101	796	97350435	47
14	97350273	2003	10-2729727	97397170	2000	10-2002830	10-0726897	797	97350445	46
15	97350277	2002	10-2727724	97399970	2000	10-2000030	10-0727694	797	97350455	45
16	97350278	2000	10-2725723	97402769	2000	10-1997231	10-0728491	798	97350465	44
17	97350278	1999	10-2723723	97405567	2000	10-1994433	10-0729289	798	97350475	43
18	97350277	1998	10-2721723	97408365	2000	10-1991635	10-0730087	799	97350485	42
19	97350275	1996	10-2719725	97411161	2000	10-1988839	10-0730886	800	97350495	41
20	97350271	1995	10-2717729	97413957	2000	10-1986043	10-0731686	800	97350505	40
21	97350267	1993	10-2715733	97416753	2000	10-1983248	10-0732486	800	97350515	39
22	97350260	1991	10-2713740	97419548	2000	10-1980454	10-0733287	801	97350525	38
23	97350253	1991	10-2711747	97422340	2000	10-1977660	10-0734087	801	97350535	37
24	97350244	1990	10-2709756	97425133	2000	10-1974867	10-0734887	802	97350545	36
25	97350234	1990	10-2707766	97427925	2000	10-1972073	10-0735688	803	97350555	35
26	97350223	1990	10-2705777	97430716	2000	10-1969280	10-0736489	803	97350565	34
27	97350211	1990	10-2703789	97433506	2000	10-1966484	10-0737290	803	97350575	33
28	97350197	1988	10-2701803	97436296	2000	10-1963691	10-0738092	804	97350585	32
29	97350183	1988	10-2699818	97439086	2000	10-1960900	10-0738894	804	97350595	31
30	97350168	1983	10-2697835	97441873	2000	10-1958117	10-0739697	805	97350605	30
31	97350148	1981	10-2695852	97444661	2000	10-1955333	10-0740501	806	97350615	29
32	97350129	1980	10-2693871	97447447	2000	10-1952550	10-0741305	806	97350625	28
33	97350109	1978	10-2691891	97450233	2000	10-1949767	10-0742110	807	97350635	27
34	97350087	1977	10-2689913	97453019	2000	10-1946981	10-0742913	808	97350645	26
35	97350064	1976	10-2687936	97455803	2000	10-1944197	10-0743719	807	97350655	25
36	97350040	1975	10-2685960	97458587	2000	10-1941413	10-0744526	808	97350665	24
37	97350015	1974	10-2683985	97461370	2000	10-1938630	10-0745334	809	97350675	23
38	97350000	1972	10-2682011	97464158	2000	10-1935848	10-0746143	809	97350685	22
39	97349981	1971	10-2680039	97466943	2000	10-1933067	10-0746952	810	97350695	21
40	97349959	1970	10-2678068	97469714	2000	10-1930286	10-0747762	810	97350705	20
41	97349937	1968	10-2676098	97472484	2000	10-1927506	10-0748573	811	97350715	19
42	97349910	1967	10-2674130	97475253	2000	10-1924727	10-0749384	811	97350725	18
43	97349887	1966	10-2672163	97478025	2000	10-1921948	10-0750194	812	97350735	17
44	97349860	1965	10-2670197	97480792	2000	10-1919171	10-0751005	813	97350745	16
45	97349831	1963	10-2668232	97483566	2000	10-1916394	10-0751816	812	97350755	15
46	97349801	1963	10-2666268	97486338	2000	10-1913617	10-0752627	814	97350765	14
47	97349769	1961	10-2664307	97489108	2000	10-1910840	10-0753438	814	97350775	13
48	97349736	1960	10-2662346	97491873	2000	10-1908067	10-0754249	814	97350785	12
49	97349704	1959	10-2660386	97494640	2000	10-1905293	10-0755060	815	97350795	11
50	97349671	1957	10-2658428	97497402	2000	10-1902520	10-0755871	815	97350805	10
51	97349638	1956	10-2656471	97500163	2000	10-1899747	10-0756682	816	97350815	9
52	97349604	1955	10-2654515	97502925	2000	10-1896975	10-0757493	817	97350825	8
53	97349570	1953	10-2652560	97505687	2000	10-1894204	10-0758305	817	97350835	7
54	97349535	1952	10-2650607	97508448	2000	10-1891434	10-0759117	817	97350845	6
55	97349500	1951	10-2648655	97511209	2000	10-1888664	10-0759929	818	97350855	5
56	97349465	1950	10-2646704	97513970	2000	10-1885895	10-0760741	819	97350865	4
57	97349429	1949	10-2644754	97516731	2000	10-1883126	10-0761553	819	97350875	3
58	97349393	1947	10-2642805	97519492	2000	10-1880357	10-0762365	820	97350885	2
59	97349357	1946	10-2640856	97522253	2000	10-1877588	10-0763177	820	97350895	1
60	97349320	1944	10-2638908	97525014	2000	10-1874819	10-0763989	821	97350905	0
7	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Co-sec.	D.	Sine	7

27 Deg.

33 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	97381088	1944	10-2638012	9-8125174	2765	10-1874888	10-0764086	821	9-9833014	60
1	97383058	1944	10-2638088	9-8127838	2765	10-1873061	10-0764007	821	9-9833088	59
2	97384976	1944	10-2638164	9-8130502	2764	10-1869889	10-0763728	822	9-9833162	58
3	97386818	1941	10-2638239	9-8133166	2763	10-1866839	10-0763450	822	9-9833235	57
4	97388609	1940	10-2638311	9-8135831	2762	10-1863760	10-0763172	823	9-9833308	56
5	97390399	1938	10-2638380	9-8138495	2762	10-1861007	10-0762895	823	9-9833381	55
6	97392187	1938	10-2638453	9-8141158	2761	10-1858945	10-0762618	824	9-9833454	54
7	97393975	1936	10-2638525	9-8143816	2761	10-1856884	10-0762341	824	9-9833527	53
8	97395761	1935	10-2638598	9-8146477	2759	10-1854823	10-0762063	825	9-9833600	52
9	97397546	1933	10-2638668	9-8149138	2759	10-1852762	10-0761786	825	9-9833673	51
10	97399329	1933	10-2638738	9-8151798	2759	10-1850701	10-0761509	826	9-9833746	50
11	97401112	1931	10-2638808	9-8154455	2757	10-1848640	10-0761232	826	9-9833819	49
12	97402894	1930	10-2638877	9-8157111	2757	10-1846579	10-0760955	827	9-9833892	48
13	97404673	1928	10-2638945	9-8159768	2756	10-1844518	10-0760678	827	9-9833965	47
14	97406450	1928	10-2639012	9-8162425	2754	10-1842457	10-0760401	828	9-9834038	46
15	97408229	1926	10-2639079	9-8165082	2755	10-1840396	10-0760124	828	9-9834111	45
16	97409998	1925	10-2639145	9-8167739	2754	10-1838335	10-0759847	830	9-9834184	44
17	97411769	1924	10-2639210	9-8170396	2753	10-1836274	10-0759570	829	9-9834257	43
18	97413538	1923	10-2639276	9-8173053	2753	10-1834213	10-0759293	830	9-9834330	42
19	97415307	1921	10-2639341	9-8175710	2752	10-1832152	10-0759016	831	9-9834403	41
20	97417076	1920	10-2639406	9-8178367	2751	10-1830091	10-0758739	831	9-9834476	40
21	97418845	1919	10-2639471	9-8181024	2751	10-1828030	10-0758462	832	9-9834549	39
22	97420614	1918	10-2639536	9-8183681	2750	10-1825969	10-0758185	832	9-9834622	38
23	97422383	1916	10-2639601	9-8186338	2749	10-1823908	10-0757908	833	9-9834695	37
24	97424152	1916	10-2639666	9-8188995	2748	10-1821847	10-0757631	833	9-9834768	36
25	97425921	1914	10-2639731	9-8191652	2748	10-1819786	10-0757354	834	9-9834841	35
26	97427690	1913	10-2639796	9-8194309	2748	10-1817725	10-0757077	834	9-9834914	34
27	97429459	1911	10-2639861	9-8196966	2748	10-1815664	10-0756800	835	9-9834987	33
28	97431228	1911	10-2639926	9-8199623	2746	10-1813603	10-0756523	835	9-9835060	32
29	97432997	1909	10-2639991	9-8202280	2745	10-1811542	10-0756246	836	9-9835133	31
30	97434766	1908	10-2640056	9-8204937	2745	10-1809481	10-0755969	837	9-9835206	30
31	97436535	1907	10-2640121	9-8207594	2743	10-1807420	10-0755692	837	9-9835279	29
32	97438304	1906	10-2640186	9-8210251	2743	10-1805359	10-0755415	838	9-9835352	28
33	97440073	1904	10-2640251	9-8212908	2743	10-1803298	10-0755138	838	9-9835425	27
34	97441842	1903	10-2640316	9-8215565	2742	10-1801237	10-0754861	839	9-9835498	26
35	97443611	1902	10-2640381	9-8218222	2741	10-1799176	10-0754584	839	9-9835571	25
36	97445380	1901	10-2640446	9-8220879	2740	10-1797115	10-0754307	839	9-9835644	24
37	97447149	1900	10-2640511	9-8223536	2740	10-1795054	10-0754030	840	9-9835717	23
38	97448918	1898	10-2640576	9-8226193	2739	10-1792993	10-0753753	841	9-9835790	22
39	97450687	1897	10-2640641	9-8228850	2739	10-1790932	10-0753476	841	9-9835863	21
40	97452456	1896	10-2640706	9-8231507	2737	10-1788871	10-0753199	842	9-9835936	20
41	97454225	1895	10-2640771	9-8234164	2738	10-1786810	10-0752922	842	9-9836009	19
42	97455994	1894	10-2640836	9-8236821	2738	10-1784749	10-0752645	843	9-9836082	18
43	97457763	1893	10-2640901	9-8239478	2736	10-1782688	10-0752368	843	9-9836155	17
44	97459532	1892	10-2640966	9-8242135	2735	10-1780627	10-0752091	844	9-9836228	16
45	97461301	1890	10-2641031	9-8244792	2734	10-1778566	10-0751814	845	9-9836301	15
46	97463070	1889	10-2641096	9-8247449	2734	10-1776505	10-0751537	844	9-9836374	14
47	97464839	1887	10-2641161	9-8250106	2733	10-1774444	10-0751260	845	9-9836447	13
48	97466608	1887	10-2641226	9-8252763	2733	10-1772383	10-0750983	846	9-9836520	12
49	97468377	1885	10-2641291	9-8255420	2732	10-1770322	10-0750706	846	9-9836593	11
50	97470146	1884	10-2641356	9-8258077	2731	10-1768261	10-0750429	847	9-9836666	10
51	97471915	1883	10-2641421	9-8260734	2730	10-1766200	10-0750152	848	9-9836739	9
52	97473684	1882	10-2641486	9-8263391	2730	10-1764139	10-0749875	848	9-9836812	8
53	97475453	1881	10-2641551	9-8266048	2730	10-1762078	10-0749598	849	9-9836885	7
54	97477222	1879	10-2641616	9-8268705	2728	10-1760017	10-0749321	849	9-9836958	6
55	97478991	1878	10-2641681	9-8271362	2728	10-1757956	10-0749044	850	9-9837031	5
56	97480760	1877	10-2641746	9-8274019	2727	10-1755895	10-0748767	850	9-9837104	4
57	97482529	1876	10-2641811	9-8276676	2727	10-1753834	10-0748490	851	9-9837177	3
58	97484298	1875	10-2641876	9-8279333	2726	10-1751773	10-0748213	851	9-9837250	2
59	97486067	1874	10-2641941	9-8281990	2725	10-1749712	10-0747936	852	9-9837323	1
60	97487836	1873	10-2642006	9-8284647	2725	10-1747651	10-0747659	852	9-9837396	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	97475617	1873	102224283	97500874	3725	101710128	100814258	822	99182742	60
1	97477480	1871	102225211	97502590	3724	101707401	100815110	823	99184690	59
2	97479300	1870	102226040	97504303	3724	101704677	100815963	824	99186637	58
3	97481120	1869	102226870	97506017	3722	101701953	100816817	824	99188583	57
4	97482909	1868	102227691	97507729	3723	101699231	100817671	825	99189529	56
5	97484697	1866	102228503	97509432	3721	101696508	100818525	825	99191478	55
6	97486483	1865	102229317	97511137	3721	101693787	100819380	826	99193426	54
7	97488268	1864	102230132	97512843	3720	101691065	100820236	826	99195374	53
8	97490052	1863	102230948	97514549	3720	101688346	100821092	827	99197322	52
9	97491835	1862	102231765	97516254	3719	101685626	100821949	827	99199270	51
10	97493617	1861	102232583	97517960	3718	101682907	100822806	828	99201218	50
11	97495398	1860	102233402	97519667	3718	101680189	100823664	828	99203166	49
12	97497179	1859	102234222	97521374	3717	101677474	100824522	829	99205114	48
13	97498959	1857	102235043	97523081	3717	101674754	100825381	829	99207062	47
14	97500738	1856	102235864	97524789	3718	101672037	100826240	830	99209010	46
15	97502517	1855	102236687	97526497	3715	101669321	100827100	830	99210958	45
16	97504294	1853	102237511	97528204	3715	101666606	100827960	831	99212906	44
17	97506071	1853	102238336	97529912	3714	101663891	100828821	832	99214854	43
18	97507848	1851	102239162	97531620	3713	101661177	100829683	832	99216802	42
19	97509624	1851	102240000	97533328	3713	101658464	100830545	832	99218750	41
20	97511399	1849	102240838	97535036	3712	101655751	100831407	833	99220698	40
21	97513174	1847	102241678	97536744	3712	101653039	100832269	834	99222646	39
22	97514948	1847	102242519	97538452	3711	101650327	100833131	834	99224594	38
23	97516722	1846	102243361	97540160	3710	101647615	100833993	835	99226542	37
24	97518495	1844	102244204	97541868	3710	101644903	100834855	835	99228490	36
25	97520268	1844	102245048	97543576	3709	101642191	100835717	836	99230438	35
26	97522040	1842	102245892	97545284	3709	101639479	100836579	837	99232386	34
27	97523812	1841	102246737	97546992	3708	101636767	100837441	836	99234334	33
28	97525584	1840	102247582	97548700	3707	101634055	100838303	838	99236282	32
29	97527356	1838	102248428	97550408	3707	101631343	100839165	838	99238230	31
30	97529128	1838	102249274	97552116	3706	101628631	100840027	839	99240178	30
31	97530899	1836	102250121	97553824	3706	101625919	100840889	839	99242126	29
32	97532670	1836	102250968	97555532	3705	101623207	100841751	840	99244074	28
33	97534441	1834	102251816	97557240	3704	101620495	100842613	840	99246022	27
34	97536212	1833	102252664	97558948	3703	101617783	100843475	841	99247970	26
35	97537983	1831	102253512	97560656	3704	101615071	100844337	841	99249918	25
36	97539754	1831	102254360	97562364	3703	101612359	100845199	842	99251866	24
37	97541525	1830	102255208	97564072	3702	101609647	100846061	842	99253814	23
38	97543296	1828	102256056	97565780	3701	101606935	100846923	843	99255762	22
39	97545067	1827	102256904	97567488	3701	101604223	100847785	843	99257710	21
40	97546838	1827	102257752	97569196	3700	101601511	100848647	844	99259658	20
41	97548609	1826	102258600	97570904	3699	101598799	100849509	845	99261606	19
42	97550380	1824	102259448	97572612	3699	101596087	100850371	845	99263554	18
43	97552151	1822	102260296	97574320	3699	101593375	100851233	846	99265502	17
44	97553922	1822	102261144	97576028	3697	101590663	100852095	847	99267450	16
45	97555693	1820	102261992	97577736	3698	101587951	100852957	847	99269398	15
46	97557464	1820	102262840	97579444	3698	101585239	100853819	847	99271346	14
47	97559235	1818	102263688	97581152	3696	101582527	100854681	848	99273294	13
48	97561006	1817	102264536	97582860	3696	101579815	100855543	849	99275242	12
49	97562777	1816	102265384	97584568	3694	101577103	100856405	849	99277190	11
50	97564548	1815	102266232	97586276	3695	101574391	100857267	850	99279138	10
51	97566319	1814	102267080	97587984	3693	101571679	100858129	850	99281086	9
52	97568090	1812	102267928	97589692	3693	101568967	100858991	850	99283034	8
53	97569861	1812	102268776	97591400	3693	101566255	100859853	851	99284982	7
54	97571632	1810	102269624	97593108	3692	101563543	100860715	852	99286930	6
55	97573403	1809	102270472	97594816	3691	101560831	100861577	852	99288878	5
56	97575174	1808	102271320	97596524	3691	101558119	100862439	853	99290826	4
57	97576945	1807	102272168	97598232	3690	101555407	100863301	853	99292774	3
58	97578716	1806	102273016	97599940	3690	101552695	100864163	853	99294722	2
59	97580487	1805	102273864	97601648	3689	101550000	100865025	854	99296670	1
60	97582258	1804	102274712	97603356	3688	101547288	100865887	855	99298618	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

36 Deg.

	Sine	Diff.	Consec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine
0	97688913	1804	10-9414067	9-8458968	3688	10-1647732	10-0883355	885	9-9123745
1	97687717	1803	10-9412283	9-8454856	3688	10-1645044	10-0887240	885	9-9123700
2	97686519	1803	10-9410481	9-8450744	3688	10-1642356	10-0891125	885	9-9123655
3	97685321	1800	10-9408679	9-8446632	3686	10-1639668	10-0895011	887	9-9123610
4	97684121	1798	10-9406879	9-8442520	3687	10-1636980	10-0898896	887	9-9123565
5	97682920	1798	10-9405080	9-8438408	3685	10-1634292	10-0902782	887	9-9123520
6	97681718	1797	10-9403282	9-8434296	3685	10-1631604	10-0906667	888	9-9123475
7	97680515	1796	10-9401485	9-8430184	3685	10-1628916	10-0910553	889	9-9123430
8	97679311	1795	10-9399688	9-8426072	3684	10-1626228	10-0914438	889	9-9123385
9	97678106	1793	10-9397894	9-8421960	3683	10-1623540	10-0918324	890	9-9123340
10	97676900	1793	10-9396101	9-8417848	3683	10-1620852	10-0922209	890	9-9123295
11	97675693	1791	10-9394306	9-8413736	3682	10-1618164	10-0926095	891	9-9123250
12	97674483	1791	10-9392517	9-8409624	3682	10-1615476	10-0929980	892	9-9123205
13	97673274	1790	10-9390726	9-8405512	3681	10-1612788	10-0933866	892	9-9123160
14	97672063	1788	10-9388937	9-8401400	3681	10-1610100	10-0937751	892	9-9123115
15	97670851	1787	10-9387149	9-8397288	3680	10-1607412	10-0941637	893	9-9123070
16	97669638	1786	10-9385363	9-8393176	3680	10-1604724	10-0945522	894	9-9123025
17	97668424	1784	10-9383578	9-8389064	3679	10-1602036	10-0949408	894	9-9122980
18	97667208	1784	10-9381792	9-8384952	3678	10-1599348	10-0953293	895	9-9122935
19	97665992	1783	10-9380008	9-8380840	3678	10-1596660	10-0957179	895	9-9122890
20	97664775	1781	10-9378223	9-8376728	3677	10-1593972	10-0961064	896	9-9122845
21	97663556	1781	10-9376444	9-8372616	3677	10-1591284	10-0964950	897	9-9122800
22	97662337	1779	10-9374663	9-8368504	3676	10-1588596	10-0968835	898	9-9122755
23	97661116	1778	10-9372884	9-8364392	3676	10-1585908	10-0972721	898	9-9122710
24	97659894	1777	10-9371106	9-8360280	3675	10-1583220	10-0976606	898	9-9122665
25	97658671	1776	10-9369329	9-8356168	3675	10-1580532	10-0980492	899	9-9122620
26	97657447	1775	10-9367553	9-8352056	3674	10-1577844	10-0984377	899	9-9122575
27	97656222	1774	10-9365778	9-8347944	3674	10-1575156	10-0988263	900	9-9122530
28	97655006	1773	10-9364004	9-8343832	3673	10-1572468	10-0992148	900	9-9122485
29	97653789	1771	10-9362231	9-8339720	3673	10-1569780	10-0996034	901	9-9122440
30	97652570	1771	10-9360460	9-8335608	3672	10-1567092	10-1000000	901	9-9122395
31	97651351	1769	10-9358689	9-8331496	3671	10-1564404	10-1003885	902	9-9122350
32	97650130	1769	10-9356920	9-8327384	3671	10-1561716	10-1007771	902	9-9122305
33	97648909	1767	10-9355151	9-8323272	3671	10-1559028	10-1011656	904	9-9122260
34	97647686	1766	10-9353384	9-8319160	3669	10-1556340	10-1015542	903	9-9122215
35	97646462	1765	10-9351618	9-8315048	3670	10-1553652	10-1019427	904	9-9122170
36	97645237	1764	10-9349853	9-8310936	3668	10-1550964	10-1023313	905	9-9122125
37	97644011	1763	10-9348089	9-8306824	3669	10-1548276	10-1027198	905	9-9122080
38	97642784	1762	10-9346326	9-8302712	3667	10-1545588	10-1031084	906	9-9122035
39	97641556	1761	10-9344564	9-8298600	3668	10-1542900	10-1034969	907	9-9121990
40	97640327	1760	10-9342803	9-8294488	3666	10-1540212	10-1038855	908	9-9121945
41	97639097	1758	10-9341043	9-8290376	3666	10-1537524	10-1042740	908	9-9121900
42	97637867	1758	10-9339285	9-8286264	3665	10-1534836	10-1046626	908	9-9121855
43	97636633	1756	10-9337527	9-8282152	3665	10-1532148	10-1050511	909	9-9121810
44	97635400	1755	10-9335771	9-8278040	3665	10-1529460	10-1054397	909	9-9121765
45	97634165	1754	10-9334015	9-8273928	3664	10-1526772	10-1058282	910	9-9121720
46	97632928	1753	10-9332261	9-8269816	3663	10-1524084	10-1062168	910	9-9121675
47	97631689	1752	10-9330508	9-8265704	3663	10-1521396	10-1066053	911	9-9121630
48	97630448	1752	10-9328756	9-8261592	3663	10-1518708	10-1069939	911	9-9121585
49	97629206	1750	10-9327004	9-8257480	3662	10-1516020	10-1073824	912	9-9121540
50	97627964	1748	10-9325254	9-8253368	3661	10-1513332	10-1077710	913	9-9121495
51	97626720	1748	10-9323506	9-8249256	3661	10-1510644	10-1081595	913	9-9121450
52	97625475	1747	10-9321758	9-8245144	3661	10-1507956	10-1085481	915	9-9121405
53	97624228	1746	10-9320011	9-8241032	3660	10-1505268	10-1089366	915	9-9121360
54	97622980	1745	10-9318265	9-8236920	3660	10-1502580	10-1093252	914	9-9121315
55	97621730	1745	10-9316520	9-8232808	3659	10-1499892	10-1097137	916	9-9121270
56	97620478	1743	10-9314777	9-8228696	3658	10-1497204	10-1101023	916	9-9121225
57	97619224	1741	10-9313034	9-8224584	3658	10-1494516	10-1104908	916	9-9121180
58	97617967	1741	10-9311293	9-8220472	3658	10-1491828	10-1108794	917	9-9121135
59	97616708	1739	10-9309552	9-8216360	3658	10-1489140	10-1112679	918	9-9121090
60	97615447	1738	10-9307813	9-8212248	3657	10-1486452	10-1116565	918	9-9121045
Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Consec.	D.	Sine	

36 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine
0	97092187	1739	102307815	98818510	2687	101387380	100980484	918	97092187
1	97092925	1737	102306978	98818907	2686	101386433	100981348	918	97092925
2	97093663	1736	102306138	98819303	2685	101385487	100982209	919	97093663
3	97094401	1735	102305298	98819698	2685	101384542	100983069	919	97094401
4	97095139	1734	102304458	98820093	2684	101383597	100983929	921	97095139
5	97095877	1733	102303618	98820488	2684	101382652	100984789	921	97095877
6	97096615	1731	102302778	98820883	2684	101381707	100985649	921	97096615
7	97097353	1731	102301938	98821278	2683	101380762	100986509	922	97097353
8	97098091	1730	102301098	98821673	2683	101379817	100987369	923	97098091
9	97098829	1729	102300258	98822068	2683	101378872	100988229	923	97098829
10	97099567	1727	102299418	98822463	2681	101377927	100989089	924	97099567
11	97100305	1727	102298578	98822858	2681	101376982	100989949	924	97100305
12	97101043	1726	102297738	98823253	2681	101376037	100990809	925	97101043
13	97101781	1724	102296898	98823648	2680	101375092	100991669	925	97101781
14	97102519	1724	102296058	98824043	2680	101374147	100992529	925	97102519
15	97103257	1723	102295218	98824438	2679	101373202	100993389	926	97103257
16	97103995	1722	102294378	98824833	2679	101372257	100994249	926	97103995
17	97104733	1721	102293538	98825228	2678	101371312	100995109	927	97104733
18	97105471	1719	102292698	98825623	2677	101370367	100995969	928	97105471
19	97106209	1718	102291858	98826018	2677	101369422	100996829	928	97106209
20	97106947	1717	102291018	98826413	2677	101368477	100997689	929	97106947
21	97107685	1717	102290178	98826808	2676	101367532	100998549	929	97107685
22	97108423	1715	102289338	98827203	2676	101366587	100999409	930	97108423
23	97109161	1714	102288498	98827598	2675	101365642	101000269	931	97109161
24	97109899	1713	102287658	98827993	2675	101364697	101001129	932	97109899
25	97110637	1712	102286818	98828388	2674	101363752	101001989	933	97110637
26	97111375	1710	102285978	98828783	2674	101362807	101002849	933	97111375
27	97112113	1710	102285138	98829178	2674	101361862	101003709	933	97112113
28	97112851	1709	102284298	98829573	2673	101360917	101004569	934	97112851
29	97113589	1708	102283458	98829968	2673	101360072	101005429	934	97113589
30	97114327	1707	102282618	98830363	2672	101359127	101006289	935	97114327
31	97115065	1705	102281778	98830758	2671	101358182	101007149	935	97115065
32	97115803	1705	102280938	98831153	2671	101357237	101008009	936	97115803
33	97116541	1704	102280098	98831548	2670	101356292	101008869	937	97116541
34	97117279	1702	102279258	98831943	2670	101355347	101009729	937	97117279
35	97118017	1702	102278418	98832338	2670	101354402	101010589	938	97118017
36	97118755	1700	102277578	98832733	2669	101353457	101011449	938	97118755
37	97119493	1700	102276738	98833128	2669	101352512	101012309	939	97119493
38	97120231	1698	102275898	98833523	2668	101351567	101013169	940	97120231
39	97120969	1698	102275058	98833918	2668	101350622	101014029	941	97120969
40	97121707	1695	102274218	98834313	2667	101349677	101014889	941	97121707
41	97122445	1696	102273378	98834708	2667	101348732	101015749	942	97122445
42	97123183	1693	102272538	98835103	2666	101347787	101016609	942	97123183
43	97123921	1693	102271698	98835498	2666	101346842	101017469	943	97123921
44	97124659	1691	102270858	98835893	2665	101345897	101018329	944	97124659
45	97125397	1690	102270018	98836288	2665	101344952	101019189	944	97125397
46	97126135	1689	102269178	98836683	2664	101344007	101020049	945	97126135
47	97126873	1688	102268338	98837078	2664	101343062	101020909	945	97126873
48	97127611	1686	102267498	98837473	2663	101342117	101021769	945	97127611
49	97128349	1687	102266658	98837868	2663	101341172	101022629	946	97128349
50	97129087	1686	102265818	98838263	2662	101340227	101023489	946	97129087
51	97129825	1685	102264978	98838658	2662	101339282	101024349	947	97129825
52	97130563	1684	102264138	98839053	2662	101338337	101025209	948	97130563
53	97131301	1683	102263298	98839448	2661	101337392	101026069	948	97131301
54	97132039	1682	102262458	98839843	2661	101336447	101026929	949	97132039
55	97132777	1681	102261618	98840238	2661	101335502	101027789	949	97132777
56	97133515	1680	102260778	98840633	2660	101334557	101028649	950	97133515
57	97134253	1679	102259938	98841028	2660	101333612	101029509	950	97134253
58	97134991	1678	102259098	98841423	2659	101332667	101030369	951	97134991
59	97135729	1677	102258258	98841818	2659	101331722	101031229	951	97135729
60	97136467	1676	102257418	98842213	2658	101330777	101032089	952	97136467
61	97137205	1675	102256578	98842608	2658	101329832	101032949	952	97137205
62	97137943	1674	102255738	98843003	2657	101328887	101033809	953	97137943
63	97138681	1673	102254898	98843398	2657	101327942	101034669	953	97138681
64	97139419	1672	102254058	98843793	2656	101326997	101035529	954	97139419
65	97140157	1671	102253218	98844188	2656	101326052	101036389	954	97140157
66	97140895	1670	102252378	98844583	2655	101325107	101037249	955	97140895
67	97141633	1669	102251538	98844978	2655	101324162	101038109	955	97141633
68	97142371	1668	102250698	98845373	2654	101323217	101038969	956	97142371
69	97143109	1667	102249858	98845768	2654	101322272	101039829	956	97143109
70	97143847	1666	102249018	98846163	2653	101321327	101040689	957	97143847
71	97144585	1665	102248178	98846558	2653	101320382	101041549	957	97144585
72	97145323	1664	102247338	98846953	2652	101319437	101042409	958	97145323
73	97146061	1663	102246498	98847348	2652	101318492	101043269	958	97146061
74	97146799	1662	102245658	98847743	2651	101317547	101044129	959	97146799
75	97147537	1661	102244818	98848138	2651	101316602	101044989	959	97147537
76	97148275	1660	102243978	98848533	2650	101315657	101045849	960	97148275
77	97149013	1659	102243138	98848928	2650	101314712	101046709	960	97149013
78	97149751	1658	102242298	98849323	2649	101313767	101047569	961	97149751
79	97150489	1657	102241458	98849718	2649	101312822	101048429	961	97150489
80	97151227	1656	102240618	98850113	2648	101311877	101049289	962	97151227
81	97151965	1655	102239778	98850508	2648	101310932	101050149	962	97151965
82	97152703	1654	102238938	98850903	2647	101310087	101051009	963	97152703
83	97153441	1653	102238098	98851298	2647	101309142	101051869	963	97153441
84	97154179	1652	102237258	98851693	2646	101308197	101052729	964	97154179
85	97154917	1651	102236418	98852088	2646	101307252	101053589	964	97154917
86	97155655	1650	102235578	98852483	2645	101306307	101054449	965	97155655
87	97156393	1649	102234738	98852878	2645	101305362	101055309	965	97156393
88	97157131	1648	102233898	98853273	2644	101304417	101056169	966	97157131
89	97157869	1647	102233058	98853668	2644	101303472	101057029	966	97157869
90	97158607	1646	102232218	98854063	2643	101302527	101057889	967	97158607
91	97159345	1645	102231378	98854458	2643	101301582	101058749	967	97159345
92	97160083	1644	102230538	98854853	2642	101300637	101059609	968	97160083
93	97160821	1643	102229698	98855248	2642	101299692	101060469	968	97160821
94	97161559	1642	102228858	98855643	2641	101298747	101061329	969	97161559
95	97162297	1641	102228018	98856038	2641	101297802	101062189	969	97162297
96	97163035	1640	102227178	98856433	2640	101296857	101063049	970	97163035
97	97163773	1639	102226338	98856828	2640	101295912	101063909	970	97163773
98	97164511	1638	102225498	98857223	2639	101294967	101064769	971	97164511
99	97165249	1637	102224658	98857618	2639	101294022	101065629	971	97165249
100	97165987	1636	102223818	98858013	2638	101293077	101066489	972	97165987

37 Deg.

	Sine	Diff.	Co-sec.	Tang.	Diff.	Cotang.	Secant	D.	Cosine	
0	97794630	1676	10-2206370	9-6771144	2688	10-1280856	10-0676514	863	9-9023486	60
1	97796306	1676	10-2206364	9-6773773	2688	10-1280859	10-0677468	853	9-9022534	59
2	97797981	1674	10-2206359	9-6776400	2687	10-1280860	10-0678419	843	9-9021581	58
3	97799655	1673	10-2206354	9-6779027	2687	10-1280873	10-0679372	834	9-9020628	57
4	97801328	1672	10-2196350	9-6781654	2687	10-1281836	10-0680326	825	9-9019674	56
5	97803000	1671	10-2196345	9-6784281	2686	10-1281849	10-0681281	815	9-9018721	55
6	97804671	1670	10-2196339	9-6786907	2686	10-1281863	10-0682236	806	9-9017768	54
7	97806341	1669	10-2196334	9-6789533	2685	10-1281876	10-0683191	796	9-9016815	53
8	97808010	1667	10-2196329	9-6792158	2684	10-1281890	10-0684146	787	9-9015862	52
9	97809677	1667	10-2196323	9-6794783	2685	10-1281903	10-0685101	777	9-9014909	51
10	97811344	1666	10-2196318	9-6797407	2684	10-1281917	10-0686056	768	9-9013956	50
11	97813010	1665	10-2186313	9-6800031	2683	10-1281930	10-0687011	759	9-9013003	49
12	97814675	1664	10-2186308	9-6802655	2683	10-1281944	10-0687966	750	9-9012050	48
13	97816339	1663	10-2186303	9-6805277	2682	10-1281957	10-0688921	741	9-9011097	47
14	97818002	1662	10-2186298	9-6807900	2682	10-1281971	10-0689876	732	9-9010144	46
15	97819664	1660	10-2186293	9-6810523	2622	10-1281984	10-0690831	723	9-9009191	45
16	97821324	1660	10-2176287	9-6813144	2621	10-1281998	10-0691786	714	9-9008238	44
17	97822984	1659	10-2177016	9-6815765	2621	10-1282011	10-0692741	705	9-9007285	43
18	97824643	1658	10-2177307	9-6818386	2621	10-1282025	10-0693696	696	9-9006332	42
19	97826301	1657	10-2177599	9-6821007	2620	10-1282038	10-0694651	687	9-9005379	41
20	97827958	1656	10-2177904	9-6823627	2619	10-1282052	10-0695606	678	9-9004426	40
21	97829614	1654	10-2178206	9-6826246	2620	10-1282065	10-0696561	669	9-9003473	39
22	97831268	1654	10-2168201	9-6828866	2618	10-1282079	10-0697516	660	9-9002520	38
23	97832922	1653	10-2168493	9-6831484	2619	10-1282092	10-0698471	651	9-9001567	37
24	97834575	1652	10-2168785	9-6834103	2618	10-1282106	10-0699426	642	9-9000614	36
25	97836227	1651	10-2169077	9-6836721	2617	10-1282119	10-0700381	633	9-9000000	35
26	97837878	1650	10-2169369	9-6839338	2618	10-1282133	10-0701336	624	9-9000000	34
27	97839528	1649	10-2169661	9-6841956	2616	10-1282146	10-0702291	615	9-9000000	33
28	97841177	1647	10-2169953	9-6844573	2617	10-1282160	10-0703246	606	9-9000000	32
29	97842824	1647	10-2159947	9-6847189	2616	10-1282174	10-0704201	597	9-9000000	31
30	97844471	1646	10-2155529	9-6849806	2615	10-1282187	10-0705156	588	9-9000000	30
31	97846117	1645	10-2155823	9-6852423	2615	10-1282201	10-0706111	579	9-9000000	29
32	97847763	1644	10-2156236	9-6855038	2615	10-1282214	10-0707066	570	9-9000000	28
33	97849405	1643	10-2156534	9-6857650	2614	10-1282228	10-0708021	561	9-9000000	27
34	97851046	1642	10-2146521	9-6860264	2614	10-1282241	10-0708976	552	9-9000000	26
35	97852681	1641	10-2147308	9-6862878	2614	10-1282255	10-0709931	543	9-9000000	25
36	97854323	1640	10-2147698	9-6865493	2613	10-1282268	10-0710886	534	9-9000000	24
37	97855973	1639	10-2148088	9-6868108	2613	10-1282282	10-0711841	525	9-9000000	23
38	97857611	1638	10-2148478	9-6870718	2613	10-1282295	10-0712796	516	9-9000000	22
39	97859249	1637	10-2148868	9-6873330	2613	10-1282309	10-0713751	507	9-9000000	21
40	97860883	1636	10-2138814	9-6875943	2612	10-1282322	10-0714706	498	9-9000000	20
41	97862515	1635	10-2138748	9-6878554	2611	10-1282336	10-0715661	489	9-9000000	19
42	97864147	1634	10-2138683	9-6881165	2610	10-1282349	10-0716616	480	9-9000000	18
43	97865779	1633	10-2138609	9-6883776	2611	10-1282363	10-0717571	471	9-9000000	17
44	97867404	1632	10-2138536	9-6886386	2610	10-1282376	10-0718526	462	9-9000000	16
45	97869026	1631	10-2138464	9-6888996	2609	10-1282390	10-0719481	453	9-9000000	15
46	97870647	1630	10-2138391	9-6891605	2609	10-1282403	10-0720436	444	9-9000000	14
47	97872267	1629	10-2138318	9-6894214	2608	10-1282417	10-0721391	435	9-9000000	13
48	97873884	1628	10-2138245	9-6896823	2608	10-1282430	10-0722346	426	9-9000000	12
49	97875497	1628	10-2138172	9-6899432	2607	10-1282444	10-0723301	417	9-9000000	11
50	97877108	1627	10-2138100	9-6902040	2607	10-1282457	10-0724256	408	9-9000000	10
51	97878718	1626	10-2138027	9-6904647	2607	10-1282471	10-0725211	399	9-9000000	9
52	97880327	1624	10-2137954	9-6907254	2607	10-1282484	10-0726166	390	9-9000000	8
53	97881937	1624	10-2137881	9-6909861	2607	10-1282498	10-0727121	381	9-9000000	7
54	97883544	1622	10-2137808	9-6912468	2606	10-1282511	10-0728076	372	9-9000000	6
55	97885150	1621	10-2137735	9-6915074	2606	10-1282525	10-0729031	363	9-9000000	5
56	97886754	1620	10-2137662	9-6917679	2605	10-1282538	10-0730000	354	9-9000000	4
57	97888358	1619	10-2137589	9-6920285	2605	10-1282552	10-0730955	345	9-9000000	3
58	97889961	1618	10-2137516	9-6922890	2604	10-1282565	10-0731910	336	9-9000000	2
59	97891563	1618	10-2137443	9-6925494	2604	10-1282579	10-0732865	327	9-9000000	1
60	97893165	1616	10-2137370	9-6928098	2604	10-1282592	10-0733820	318	9-9000000	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	D.	Sine	

39 Deg.

	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	Diff.	Cosine	
0	97804020	1616	10-1108580	97808008	2804	10-1071298	10-1034679	282	97808221	60
1	97808036	1616	10-1104064	97808708	2804	10-1066908	10-1030006	282	97808434	61
2	97812052	1614	10-1103348	97809306	2803	10-1063094	10-1025554	283	97808648	62
3	97816068	1614	10-1101734	97809808	2803	10-1060004	10-1021642	283	97808862	63
4	97820084	1613	10-1100180	97810311	2803	10-1056499	10-1017952	280	97809076	64
5	97824099	1611	10-1098607	97810814	2801	10-1053006	10-1014061	280	97809290	65
6	97828114	1611	10-1096988	97811317	2800	10-1049526	10-1010161	281	97809504	66
7	97832129	1610	10-1095393	97811820	2801	10-1046043	10-1006260	280	97809718	67
8	97836145	1608	10-1093807	97812323	2801	10-1042558	10-1002354	282	97809932	68
9	97840160	1606	10-1092206	97812826	2800	10-1039071	10-0998448	282	97810146	69
10	97844176	1607	10-1090640	97813329	2800	10-1035581	10-0994539	283	97810360	70
11	97848191	1606	10-1089088	97813832	2800	10-1032094	10-0990629	284	97810574	71
12	97852207	1605	10-1087546	97814335	2800	10-1028604	10-0986718	284	97810788	72
13	97856222	1604	10-1086014	97814838	2800	10-1025114	10-0982807	285	97811002	73
14	97860238	1603	10-1084482	97815341	2800	10-1021624	10-0978896	285	97811216	74
15	97864253	1602	10-1082950	97815844	2800	10-1018134	10-0974985	287	97811430	75
16	97868269	1601	10-1081418	97816347	2800	10-1014644	10-0971074	286	97811644	76
17	97872284	1600	10-1079886	97816850	2800	10-1011154	10-0967163	286	97811858	77
18	97876300	1600	10-1078354	97817353	2800	10-1007664	10-0963252	287	97812072	78
19	97880315	1600	10-1076822	97817856	2800	10-1004174	10-0959341	287	97812286	79
20	97884331	1600	10-1075290	97818359	2800	10-1000684	10-0955430	288	97812500	80
21	97888346	1599	10-1073758	97818862	2800	10-0997194	10-0951519	288	97812714	81
22	97892362	1597	10-1072226	97819365	2800	10-0993704	10-0947608	289	97812928	82
23	97896377	1597	10-1070694	97819868	2800	10-0990214	10-0943697	289	97813142	83
24	97900393	1597	10-1069162	97820371	2800	10-0986724	10-0939786	290	97813356	84
25	97904408	1597	10-1067630	97820874	2800	10-0983234	10-0935875	290	97813570	85
26	97908424	1597	10-1066098	97821377	2800	10-0979744	10-0931964	291	97813784	86
27	97912439	1597	10-1064566	97821880	2800	10-0976254	10-0928053	291	97813998	87
28	97916455	1597	10-1063034	97822383	2800	10-0972764	10-0924142	292	97814212	88
29	97920470	1597	10-1061502	97822886	2800	10-0969274	10-0920231	292	97814426	89
30	97924486	1597	10-1060000	97823389	2800	10-0965784	10-0916320	293	97814640	90
31	97928501	1597	10-1058468	97823892	2800	10-0962294	10-0912409	293	97814854	91
32	97932517	1597	10-1056936	97824395	2800	10-0958804	10-0908498	294	97815068	92
33	97936532	1597	10-1055404	97824898	2800	10-0955314	10-0904587	294	97815282	93
34	97940548	1597	10-1053872	97825401	2800	10-0951824	10-0900676	295	97815496	94
35	97944563	1597	10-1052340	97825904	2800	10-0948334	10-0896765	295	97815710	95
36	97948579	1597	10-1050808	97826407	2800	10-0944844	10-0892854	296	97815924	96
37	97952594	1597	10-1049276	97826910	2800	10-0941354	10-0888943	296	97816138	97
38	97956610	1597	10-1047744	97827413	2800	10-0937864	10-0885032	297	97816352	98
39	97960625	1597	10-1046212	97827916	2800	10-0934374	10-0881121	297	97816566	99
40	97964641	1597	10-1044680	97828419	2800	10-0930884	10-0877210	298	97816780	100
41	97968656	1597	10-1043148	97828922	2800	10-0927394	10-0873299	298	97816994	101
42	97972672	1597	10-1041616	97829425	2800	10-0923904	10-0869388	299	97817208	102
43	97976687	1597	10-1040084	97829928	2800	10-0920414	10-0865477	299	97817422	103
44	97980703	1597	10-1038552	97830431	2800	10-0916924	10-0861566	300	97817636	104
45	97984718	1597	10-1037020	97830934	2800	10-0913434	10-0857655	300	97817850	105
46	97988734	1597	10-1035488	97831437	2800	10-0909944	10-0853744	301	97818064	106
47	97992749	1597	10-1033956	97831940	2800	10-0906454	10-0849833	301	97818278	107
48	97996765	1597	10-1032424	97832443	2800	10-0902964	10-0845922	302	97818492	108
49	98000780	1597	10-1030892	97832946	2800	10-0899474	10-0842011	302	97818706	109
50	98004796	1597	10-1029360	97833449	2800	10-0895984	10-0838100	303	97818920	110
51	98008811	1597	10-1027828	97833952	2800	10-0892494	10-0834189	303	97819134	111
52	98012827	1597	10-1026296	97834455	2800	10-0889004	10-0830278	304	97819348	112
53	98016842	1597	10-1024764	97834958	2800	10-0885514	10-0826367	304	97819562	113
54	98020858	1597	10-1023232	97835461	2800	10-0882024	10-0822456	305	97819776	114
55	98024873	1597	10-1021700	97835964	2800	10-0878534	10-0818545	305	97819990	115
56	98028889	1597	10-1020168	97836467	2800	10-0875044	10-0814634	306	97820204	116
57	98032904	1597	10-1018636	97836970	2800	10-0871554	10-0810723	306	97820418	117
58	98036920	1597	10-1017104	97837473	2800	10-0868064	10-0806812	307	97820632	118
59	98040935	1597	10-1015572	97837976	2800	10-0864574	10-0802901	307	97820846	119
60	98044951	1597	10-1014040	97838479	2800	10-0861084	10-0798990	308	97821060	120

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	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	Diff.	Cosine	
0	9786718	1580	10-2011283	9-9083699	2583	10-0916308	10-1094974	1083	9-8903096	80
1	9786878	1588	10-2009739	9-9083875	2583	10-0913726	10-1095997	1094	9-8904003	89
2	9787038	1588	10-2008184	9-9083888	2582	10-0911142	10-1097021	1095	9-8904979	88
3	9787198	1587	10-2006630	9-9083440	2582	10-0908560	10-1098046	1085	9-8901954	87
4	9787358	1585	10-2005049	9-9084022	2581	10-0905978	10-1099071	1086	9-8900929	86
5	9787517	1585	10-2003493	9-9084603	2582	10-0903397	10-1100097	1086	9-8899903	85
6	9787676	1584	10-2001938	9-9085185	2581	10-0900815	10-1101123	1087	9-8898877	84
7	9787835	1583	10-2000384	9-9101766	2581	10-0898234	10-1102150	1089	9-8897850	83
8	9787994	1582	10-1998831	9-9104347	2580	10-0895653	10-1103178	1089	9-8896823	82
9	9788153	1581	10-1997279	9-9106927	2580	10-0893073	10-1104205	1092	9-8895794	81
10	9788312	1581	10-1995728	9-9109507	2580	10-0890493	10-1105232	1093	9-8894765	80
11	9788471	1580	10-1994177	9-9112087	2579	10-0887913	10-1106260	1093	9-8893736	79
12	9788630	1580	10-1992628	9-9114668	2579	10-0885334	10-1107284	1031	9-8892706	78
13	9788789	1547	10-1991070	9-9117245	2579	10-0882755	10-1108325	1031	9-8891678	77
14	9788948	1547	10-1989523	9-9119824	2579	10-0880176	10-1109366	1032	9-8890644	76
15	9789107	1546	10-1987965	9-9122403	2578	10-0877597	10-1110398	1032	9-8889611	75
16	9789266	1545	10-1986409	9-9124981	2578	10-0875019	10-1111420	1033	9-8888582	74
17	9789425	1543	10-1984854	9-9127559	2578	10-0872441	10-1112453	1034	9-8887547	73
18	9789584	1543	10-1983301	9-9130137	2577	10-0869863	10-1113487	1034	9-8886513	72
19	9789743	1543	10-1981748	9-9132714	2577	10-0867286	10-1114521	1035	9-8885479	71
20	9789902	1541	10-1980196	9-9135291	2577	10-0864709	10-1115556	1036	9-8884444	70
21	9790061	1540	10-1978643	9-9137869	2576	10-0862133	10-1116592	1037	9-8883408	69
22	9790220	1539	10-1977091	9-9140444	2576	10-0859556	10-1117628	1037	9-8882373	68
23	9790379	1539	10-1975545	9-9143020	2576	10-0856980	10-1118665	1037	9-8881338	67
24	9790538	1537	10-1974006	9-9145598	2575	10-0854404	10-1119702	1038	9-8880303	66
25	9790697	1537	10-1972469	9-9148171	2575	10-0851829	10-1120740	1039	9-8879268	65
26	9790856	1536	10-1970932	9-9150747	2575	10-0849253	10-1121779	1039	9-8878231	64
27	9791015	1534	10-1969396	9-9153323	2574	10-0846678	10-1122818	1040	9-8877192	63
28	9791174	1534	10-1967863	9-9155898	2575	10-0844104	10-1123858	1040	9-8876149	62
29	9791333	1533	10-1966328	9-9158471	2574	10-0841530	10-1124898	1041	9-8875102	61
30	9791492	1532	10-1964795	9-9161045	2573	10-0838955	10-1125939	1042	9-8874061	60
31	9791651	1531	10-1963263	9-9163618	2574	10-0836382	10-1126980	1042	9-8873019	59
32	9791810	1531	10-1961732	9-9166192	2573	10-0833808	10-1128023	1043	9-8871977	58
33	9791969	1530	10-1960201	9-9168765	2573	10-0831235	10-1129066	1044	9-8870934	57
34	9792128	1529	10-1958670	9-9171338	2573	10-0828663	10-1130110	1044	9-8869890	56
35	9792287	1527	10-1957140	9-9173911	2572	10-0826089	10-1131154	1045	9-8868846	55
36	9792446	1527	10-1955616	9-9176483	2572	10-0823517	10-1132199	1045	9-8867801	54
37	9792605	1526	10-1954089	9-9179056	2572	10-0820945	10-1133244	1046	9-8866756	53
38	9792764	1526	10-1952564	9-9181627	2571	10-0818373	10-1134289	1047	9-8865711	52
39	9792923	1524	10-1951039	9-9184198	2571	10-0815802	10-1135333	1047	9-8864663	51
40	9793082	1523	10-1949515	9-9186769	2571	10-0813231	10-1136378	1048	9-8863616	50
41	9793241	1523	10-1947992	9-9189340	2571	10-0810660	10-1137422	1049	9-8862568	49
42	9793400	1521	10-1946469	9-9191911	2570	10-0808089	10-1138467	1049	9-8861519	48
43	9793559	1521	10-1944946	9-9194481	2570	10-0805519	10-1139510	1050	9-8860470	47
44	9793718	1519	10-1943423	9-9197051	2570	10-0802949	10-1140550	1050	9-8859420	46
45	9793877	1519	10-1941900	9-9199621	2570	10-0800379	10-1141590	1051	9-8858370	45
46	9794036	1517	10-1940377	9-9202191	2569	10-0797809	10-1142631	1052	9-8857319	44
47	9794195	1517	10-1938854	9-9204760	2569	10-0795234	10-1143673	1052	9-8856267	43
48	9794354	1516	10-1937331	9-9207329	2569	10-0792661	10-1144715	1053	9-8855215	42
49	9794513	1515	10-1935808	9-9209898	2568	10-0790082	10-1145758	1053	9-8854163	41
50	9794672	1514	10-1934285	9-9212468	2568	10-0787514	10-1146801	1054	9-8853110	40
51	9794831	1513	10-1932762	9-9215037	2568	10-0784946	10-1147845	1055	9-8852056	39
52	9794990	1512	10-1931239	9-9217606	2568	10-0782378	10-1148888	1055	9-8851000	38
53	9795149	1512	10-1929716	9-9220175	2567	10-0779809	10-1149932	1056	9-8849945	37
54	9795308	1510	10-1928193	9-9222744	2567	10-0777241	10-1150975	1057	9-8848889	36
55	9795467	1510	10-1926670	9-9225313	2567	10-0774673	10-1152019	1057	9-8847833	35
56	9795626	1509	10-1925147	9-9227882	2566	10-0772105	10-1153062	1058	9-8846777	34
57	9795785	1508	10-1923624	9-9230451	2567	10-0769537	10-1154106	1058	9-8845721	33
58	9795944	1507	10-1922101	9-9233020	2566	10-0766969	10-1155149	1059	9-8844665	32
59	9796103	1506	10-1920578	9-9235589	2565	10-0764401	10-1156193	1059	9-8843609	31
60	9796262	1506	10-1919055	9-9238158	2565	10-0761833	10-1157236	1061	9-8842553	30
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	Diff.	Sine	

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	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	Diff.	Cosine	
0	9 8060675	1505	10-1919325	9-9836135	2565	10-0761865	10-1167460	1061	9-8848540	80
1	9 8062120	1504	10-1917880	9-9840701	2565	10-0760399	10-1168981	1061	9-8844799	89
2	9 8063564	1504	10-1916435	9-9845266	2565	10-0758934	10-1170523	1061	9-8841018	88
3	9 8065008	1502	10-1914991	9-9849831	2565	10-0757469	10-1172064	1063	9-8837237	87
4	9 8066452	1502	10-1913546	9-9854396	2564	10-0756004	10-1173605	1063	9-8833456	86
5	9 8067896	1500	10-1912102	9-9858960	2564	10-0754539	10-1175146	1064	9-8829675	85
6	9 8069340	1500	10-1910657	9-9863525	2564	10-0753074	10-1176687	1064	9-8825894	84
7	9 8070784	1499	10-1909213	9-9868089	2564	10-0751609	10-1178228	1065	9-8822113	83
8	9 8072228	1498	10-1907768	9-9872654	2563	10-0750144	10-1179769	1065	9-8818332	82
9	9 8073672	1497	10-1906323	9-9877218	2563	10-0748679	10-1181310	1066	9-8814551	81
10	9 8075116	1496	10-1904878	9-9881783	2563	10-0747214	10-1182851	1067	9-8810770	80
11	9 8076560	1495	10-1903433	9-9886347	2563	10-0745749	10-1184392	1067	9-8806989	79
12	9 8078004	1494	10-1901988	9-9890912	2562	10-0744284	10-1185933	1068	9-8803208	78
13	9 8079448	1494	10-1900543	9-9895476	2562	10-0742819	10-1187474	1068	9-8799427	77
14	9 8080892	1493	10-1899098	9-9899041	2562	10-0741354	10-1189015	1070	9-8795646	76
15	9 8082336	1491	10-1897653	9-9903605	2562	10-0739889	10-1190556	1069	9-8791865	75
16	9 8083780	1491	10-1896208	9-9908170	2561	10-0738424	10-1192097	1071	9-8788084	74
17	9 8085224	1490	10-1894763	9-9912734	2561	10-0736959	10-1193638	1071	9-8784303	73
18	9 8086668	1490	10-1893318	9-9917299	2561	10-0735494	10-1195179	1072	9-8780522	72
19	9 8088112	1488	10-1891873	9-9921863	2561	10-0734029	10-1196720	1073	9-8776741	71
20	9 8089556	1487	10-1890428	9-9926428	2560	10-0732564	10-1198261	1073	9-8772960	70
21	9 8091000	1487	10-1888983	9-9930992	2560	10-0731099	10-1199802	1073	9-8769179	69
22	9 8092444	1486	10-1887538	9-9935557	2560	10-0729634	10-1201343	1073	9-8765398	68
23	9 8093888	1485	10-1886093	9-9940121	2560	10-0728169	10-1202884	1074	9-8761617	67
24	9 8095332	1484	10-1884648	9-9944686	2559	10-0726704	10-1204425	1076	9-8757836	66
25	9 8096776	1483	10-1883203	9-9949250	2559	10-0725239	10-1205966	1076	9-8754055	65
26	9 8098220	1482	10-1881758	9-9953815	2558	10-0723774	10-1207507	1077	9-8750274	64
27	9 8099664	1481	10-1880313	9-9958379	2558	10-0722309	10-1209048	1077	9-8746493	63
28	9 8101108	1481	10-1878868	9-9962944	2558	10-0720844	10-1210589	1078	9-8742712	62
29	9 8102552	1479	10-1877423	9-9967508	2558	10-0719379	10-1212130	1079	9-8738931	61
30	9 8104000	1479	10-1875978	9-9972073	2558	10-0717914	10-1213671	1079	9-8735150	60
31	9 8105444	1478	10-1874533	9-9976637	2558	10-0716449	10-1215212	1080	9-8731369	59
32	9 8106888	1477	10-1873088	9-9981202	2557	10-0714984	10-1216753	1081	9-8727588	58
33	9 8108332	1476	10-1871643	9-9985766	2557	10-0713519	10-1218294	1081	9-8723807	57
34	9 8109776	1475	10-1870198	9-9990331	2557	10-0712054	10-1219835	1082	9-8720026	56
35	9 8111220	1474	10-1868753	9-9994895	2557	10-0710589	10-1221376	1083	9-8716245	55
36	9 8112664	1474	10-1867308	9-9999460	2556	10-0709124	10-1222917	1083	9-8712464	54
37	9 8114108	1473	10-1865863	9-1004024	2556	10-0707659	10-1224458	1084	9-8708683	53
38	9 8115552	1471	10-1864418	9-1008589	2557	10-0706194	10-1226000	1084	9-8704902	52
39	9 8116996	1471	10-1862973	9-1013153	2556	10-0704729	10-1227541	1085	9-8701121	51
40	9 8118440	1470	10-1861528	9-1017718	2555	10-0703264	10-1229082	1086	9-8697340	50
41	9 8119884	1469	10-1860083	9-1022282	2555	10-0701799	10-1230623	1086	9-8693559	49
42	9 8121328	1468	10-1858638	9-1026847	2555	10-0700334	10-1232164	1087	9-8689778	48
43	9 8122772	1467	10-1857193	9-1031411	2555	10-0698869	10-1233705	1088	9-8685997	47
44	9 8124216	1467	10-1855748	9-1035976	2554	10-0697404	10-1235246	1088	9-8682216	46
45	9 8125660	1466	10-1854303	9-1040540	2554	10-0695939	10-1236787	1089	9-8678435	45
46	9 8127104	1465	10-1852858	9-1045105	2554	10-0694474	10-1238328	1089	9-8674654	44
47	9 8128548	1464	10-1851413	9-1049669	2554	10-0693009	10-1239869	1091	9-8670873	43
48	9 8129992	1463	10-1849968	9-1054234	2554	10-0691544	10-1241410	1090	9-8667092	42
49	9 8131436	1463	10-1848523	9-1058798	2553	10-0690079	10-1242951	1092	9-8663311	41
50	9 8132880	1461	10-1847078	9-1063363	2554	10-0688614	10-1244492	1092	9-8659530	40
51	9 8134324	1461	10-1845633	9-1067927	2553	10-0687149	10-1246033	1093	9-8655749	39
52	9 8135768	1460	10-1844188	9-1072492	2553	10-0685684	10-1247574	1093	9-8651968	38
53	9 8137212	1459	10-1842743	9-1077056	2553	10-0684219	10-1249115	1094	9-8648187	37
54	9 8138656	1458	10-1841298	9-1081621	2553	10-0682754	10-1250656	1095	9-8644406	36
55	9 8140100	1457	10-1839853	9-1086185	2553	10-0681289	10-1252197	1095	9-8640625	35
56	9 8141544	1457	10-1838408	9-1090750	2552	10-0679824	10-1253738	1096	9-8636844	34
57	9 8142988	1455	10-1836963	9-1095314	2552	10-0678359	10-1255279	1096	9-8633063	33
58	9 8144432	1454	10-1835518	9-1099879	2552	10-0676894	10-1256820	1098	9-8629282	32
59	9 8145876	1454	10-1834073	9-1104443	2552	10-0675429	10-1258361	1097	9-8625501	31
60	9 8147320	1453	10-1832628	9-1109008	2551	10-0673964	10-1259902	1098	9-8621720	30
61	9 8148764	1453	10-1831183	9-1113572	2551	10-0672499	10-1261443	1098	9-8617939	29
62	9 8150208	1451	10-1829738	9-1118137	2551	10-0671034	10-1262984	1099	9-8614158	28
63	9 8151652	1450	10-1828293	9-1122701	2551	10-0669569	10-1264525	1099	9-8610377	27
64	9 8153096	1449	10-1826848	9-1127266	2550	10-0668104	10-1266066	1100	9-8606596	26
65	9 8154540	1448	10-1825403	9-1131830	2550	10-0666639	10-1267607	1100	9-8602815	25
66	9 8155984	1447	10-1823958	9-1136395	2549	10-0665174	10-1269148	1101	9-8599034	24
67	9 8157428	1446	10-1822513	9-1140959	2549	10-0663709	10-1270689	1101	9-8595253	23
68	9 8158872	1445	10-1821068	9-1145524	2548	10-0662244	10-1272230	1102	9-8591472	22
69	9 8160316	1444	10-1819623	9-1150088	2548	10-0660779	10-1273771	1102	9-8587691	21
70	9 8161760	1443	10-1818178	9-1154653	2548	10-0659314	10-1275312	1103	9-8583910	20
71	9 8163204	1443	10-1816733	9-1159217	2547	10-0657849	10-1276853	1103	9-8580129	19
72	9 8164648	1442	10-1815288	9-1163782	2547	10-0656384	10-1278394	1104	9-8576348	18
73	9 8166092	1441	10-1813843	9-1168346	2547	10-0654919	10-1279935	1104	9-8572567	17
74	9 8167536	1440	10-1812398	9-1172911	2546	10-0653454	10-1281476	1105	9-8568786	16
75	9 8168980	1439	10-1810953	9-1177475	2546	10-0651989	10-1283017	1105	9-8565005	15
76	9 8170424	1438	10-1809508	9-1182040	2545	10-0650524	10-1284558	1106	9-8561224	14
77	9 8171868	1437	10-1808063	9-1186604	2545	10-0649059	10-1286099	1106	9-8557443	13
78	9 8173312	1436	10-1806618	9-1191169	2544	10-0647594	10-1287640	1107	9-8553662	12
79	9 8174756	1435	10-1805173	9-1195733	2544	10-0646129	10-1289181	1107	9-8549881	11
80	9 8176200	1434	10-1803728	9-1200298	2544	10-0644664	10-1290722	1108	9-8546100	10
81	9 8177644	1433	10-1802283	9-1204862	2543	10-0643199	10-1292263	1108	9-8542319	9
82	9 8179088	1432	10-1800838	9-1209427	2543	10-0641734	10-1293804	1109	9-8538538	8
83	9 8180532	1431	10-1799393	9-1213991	2543	10-0640269	10-1295345	1109	9-8534757	7
84	9 8181976	1430	10-1797948	9-1218556	2542	10-0638804	10-1296886	1110	9-8530976	6
85	9 8183420	1429	10-1796503	9-1223120	2542	10-0637339	10-1298427	1110	9-8527195	5
86	9 8184864	1428	10-1795058	9-1227685	2541	10-0635874	10-1299968	1111	9-8523414	4
87	9 8186308	1427	10-1793613	9-1232249	2541	10-0634409	10-1301509	1111	9-8519633	3
88	9 8187752	1426	10-1792168	9-1236814	2541	10-0632944	10-1303050	1112	9-8515852	2
89	9 8189196	1425	10-1790723	9-1241378	2540	10-0631479	10-1304591	1112	9-8512071	1
90	9 8190640	1424	10-1789278	9-1245943	2540	10-0630014	10-1306132	1113	9-8508290	0

40 Deg.

41 Deg.

	Sine	Diff.	Consec.	Tang.	Diff.	Cotang.	Secant	Diff.	Cosine	
0	9-8169489	1483	10-1830371	9-9391631	2551	10-0608369	10-1222201	1099	9-8777799	60
1	9-8170682	1482	10-1829118	9-9394198	2551	10-0605818	10-1223200	1099	9-8776700	59
2	9-8171934	1451	10-1827666	9-9396733	2551	10-0603267	10-1224200	1100	9-8775603	58
3	9-8173235	1450	10-1826215	9-9399268	2551	10-0600716	10-1225200	1100	9-8774501	57
4	9-8174535	1450	10-1824765	9-9401835	2550	10-0598165	10-1226200	1101	9-8773401	56
5	9-8175835	1448	10-1823315	9-9404392	2551	10-0595615	10-1227200	1102	9-8772300	55
6	9-8177133	1448	10-1821867	9-9406936	2550	10-0593064	10-1228200	1102	9-8771198	54
7	9-8178431	1447	10-1820419	9-9409480	2550	10-0590514	10-1229200	1103	9-8770096	53
8	9-8179729	1446	10-1818972	9-9412035	2549	10-0587964	10-1230200	1104	9-8768993	52
9	9-8181027	1445	10-1817526	9-9414582	2550	10-0585415	10-1231200	1104	9-8767889	51
10	9-8182325	1445	10-1816081	9-9417135	2549	10-0582865	10-1232200	1105	9-8766785	50
11	9-8183624	1443	10-1814636	9-9419684	2549	10-0580316	10-1233200	1106	9-8765680	49
12	9-8184922	1443	10-1813193	9-9422233	2549	10-0577767	10-1234200	1106	9-8764574	48
13	9-8186220	1442	10-1811750	9-9424782	2548	10-0575218	10-1235200	1107	9-8763468	47
14	9-8187518	1441	10-1810308	9-9427331	2548	10-0572669	10-1236200	1108	9-8762361	46
15	9-8188813	1440	10-1808867	9-9429879	2548	10-0570121	10-1237200	1108	9-8761253	45
16	9-8190109	1439	10-1807427	9-9432428	2548	10-0567572	10-1238200	1109	9-8760145	44
17	9-8191401	1438	10-1805988	9-9434976	2548	10-0565024	10-1239200	1109	9-8759036	43
18	9-8192693	1438	10-1804550	9-9437524	2548	10-0562476	10-1240200	1110	9-8757927	42
19	9-8193985	1437	10-1803112	9-9440072	2547	10-0559928	10-1241200	1110	9-8756818	41
20	9-8195275	1436	10-1801675	9-9442619	2547	10-0557381	10-1242200	1112	9-8755708	40
21	9-8196561	1435	10-1800239	9-9445166	2548	10-0554834	10-1243200	1112	9-8754598	39
22	9-8197846	1434	10-1798804	9-9447714	2547	10-0552286	10-1244200	1112	9-8753488	38
23	9-8199130	1433	10-1797370	9-9450261	2547	10-0549739	10-1245200	1113	9-8752377	37
24	9-8200413	1433	10-1795937	9-9452807	2547	10-0547193	10-1246200	1114	9-8751266	36
25	9-8201696	1431	10-1794504	9-9455354	2546	10-0544646	10-1247200	1115	9-8750154	35
26	9-8202977	1431	10-1793073	9-9457900	2547	10-0542100	10-1248200	1115	9-8749042	34
27	9-8204258	1430	10-1791642	9-9460447	2546	10-0539553	10-1249200	1117	9-8747927	33
28	9-8205538	1429	10-1790212	9-9462993	2546	10-0537007	10-1250200	1116	9-8746812	32
29	9-8206817	1429	10-1788783	9-9465539	2545	10-0534461	10-1251200	1118	9-8745697	31
30	9-8208096	1427	10-1787354	9-9468084	2546	10-0531916	10-1252200	1118	9-8744581	30
31	9-8209373	1427	10-1785927	9-9470630	2545	10-0529370	10-1253200	1118	9-8743464	29
32	9-8210650	1426	10-1784500	9-9473176	2545	10-0526825	10-1254200	1120	9-8742346	28
33	9-8211926	1425	10-1783074	9-9475720	2545	10-0524280	10-1255200	1120	9-8741228	27
34	9-8213201	1424	10-1781649	9-9478265	2545	10-0521735	10-1256200	1120	9-8740108	26
35	9-8214475	1423	10-1780225	9-9480810	2545	10-0519190	10-1257200	1121	9-8738986	25
36	9-8215748	1423	10-1778803	9-9483353	2544	10-0516645	10-1258200	1122	9-8737864	24
37	9-8217021	1421	10-1777379	9-9485899	2544	10-0514101	10-1259200	1123	9-8736742	23
38	9-8218294	1421	10-1775958	9-9488443	2544	10-0511557	10-1260200	1123	9-8735620	22
39	9-8219566	1420	10-1774537	9-9490987	2544	10-0509013	10-1261200	1124	9-8734497	21
40	9-8220838	1419	10-1773117	9-9493531	2544	10-0506469	10-1262200	1125	9-8733373	20
41	9-8222109	1419	10-1771698	9-9496075	2544	10-0503925	10-1263200	1125	9-8732249	19
42	9-8223381	1417	10-1770279	9-9498619	2543	10-0501381	10-1264200	1126	9-8731125	18
43	9-8224652	1417	10-1768862	9-9501163	2543	10-0498838	10-1265200	1127	9-8730000	17
44	9-8225923	1416	10-1767445	9-9503705	2543	10-0496295	10-1266200	1127	9-8728875	16
45	9-8227194	1415	10-1766028	9-9506248	2543	10-0493752	10-1267200	1128	9-8727749	15
46	9-8228465	1414	10-1764614	9-9508791	2543	10-0491209	10-1268200	1128	9-8726624	14
47	9-8229736	1413	10-1763200	9-9511334	2542	10-0488666	10-1269200	1129	9-8725498	13
48	9-8230997	1413	10-1761787	9-9513876	2543	10-0486124	10-1270200	1130	9-8724373	12
49	9-8232258	1411	10-1760374	9-9516419	2543	10-0483581	10-1271200	1131	9-8723247	11
50	9-8233519	1411	10-1758963	9-9518961	2542	10-0481039	10-1272200	1131	9-8722120	10
51	9-8234780	1410	10-1757553	9-9521503	2542	10-0478497	10-1273200	1132	9-8720994	9
52	9-8236041	1409	10-1756143	9-9524045	2542	10-0475955	10-1274200	1133	9-8719868	8
53	9-8237302	1409	10-1754733	9-9526587	2541	10-0473413	10-1275200	1133	9-8718741	7
54	9-8238563	1407	10-1753324	9-9529128	2542	10-0470872	10-1276200	1134	9-8717614	6
55	9-8239824	1407	10-1751917	9-9531670	2541	10-0468330	10-1277200	1135	9-8716487	5
56	9-8241085	1406	10-1750510	9-9534211	2541	10-0465789	10-1278200	1135	9-8715359	4
57	9-8242346	1405	10-1749104	9-9536752	2541	10-0463248	10-1279200	1136	9-8714231	3
58	9-8243607	1404	10-1747699	9-9539293	2541	10-0460707	10-1280200	1136	9-8713102	2
59	9-8244868	1404	10-1746295	9-9541834	2540	10-0458166	10-1281200	1137	9-8711973	1
60	9-8246129	1403	10-1744891	9-9544374	2541	10-0455625	10-1282200	1138	9-8710844	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Consec.	Diff.	Sine	

42 Deg.

	Sine	Diff.	Secant	Tang.	Diff.	Cotang.	Secant	Diff.	Cosine	
0	98255109	1403	10-1744891	9-9544374	2541	10-0455626	10-1289203	1138	9-9710735	69
1	98255512	1401	10-1745469	9-9546915	2540	10-0453085	10-1290403	1139	9-9709997	68
2	98255913	1401	10-1746067	9-9549456	2540	10-0450545	10-1291548	1139	9-9709258	67
3	98256314	1401	10-1746666	9-9551996	2540	10-0448005	10-1292691	1140	9-9708519	66
4	98256715	1399	10-1747265	9-9554535	2540	10-0445465	10-1293832	1140	9-9707779	65
5	98257114	1398	10-1747866	9-9557075	2540	10-0442925	10-1294971	1141	9-9707039	64
6	98257513	1398	10-1748468	9-9559615	2539	10-0440385	10-1296108	1142	9-9706298	63
7	98257910	1397	10-1749069	9-9562154	2540	10-0437845	10-1297244	1143	9-9705558	62
8	98258307	1396	10-1749669	9-9564694	2539	10-0435305	10-1298387	1143	9-9704818	61
9	98258703	1396	10-1750267	9-9567233	2539	10-0432767	10-1299530	1144	9-9704077	60
10	98259098	1395	10-1750868	9-9569773	2539	10-0430228	10-1300674	1144	9-9703336	59
11	98259493	1394	10-1751467	9-9572311	2539	10-0427689	10-1301818	1145	9-9702595	58
12	98259887	1392	10-1752068	9-9574850	2539	10-0425150	10-1302963	1145	9-9701854	57
13	98260282	1392	10-1752667	9-9577389	2538	10-0422611	10-1304108	1147	9-9701113	56
14	98260677	1389	10-1753269	9-9579927	2538	10-0420073	10-1305252	1147	9-9700372	55
15	98261073	1390	10-1753867	9-9582465	2539	10-0417535	10-1306405	1148	9-9699631	54
16	98261468	1390	10-1754467	9-9585004	2538	10-0414996	10-1307548	1148	9-9698890	53
17	98261863	1388	10-1755067	9-9587542	2538	10-0412458	10-1308692	1149	9-9698149	52
18	98262258	1388	10-1755668	9-9590080	2538	10-0409920	10-1309836	1150	9-9697408	51
19	98262653	1387	10-1756268	9-9592618	2537	10-0407382	10-1310980	1151	9-9696667	50
20	98263048	1387	10-1756869	9-9595155	2538	10-0404844	10-1312124	1151	9-9695926	49
21	98263443	1385	10-1757467	9-9597693	2537	10-0402307	10-1313268	1152	9-9695185	48
22	98263838	1385	10-1758067	9-9600230	2537	10-0399770	10-1314412	1152	9-9694444	47
23	98264233	1384	10-1758667	9-9602767	2538	10-0397233	10-1315556	1154	9-9693703	46
24	98264628	1383	10-1759267	9-9605305	2537	10-0394695	10-1316700	1154	9-9692962	45
25	98265023	1382	10-1759867	9-9607842	2538	10-0392158	10-1317844	1154	9-9692221	44
26	98265418	1382	10-1760468	9-9610379	2537	10-0389622	10-1318988	1155	9-9691480	43
27	98265813	1381	10-1761068	9-9612915	2537	10-0387085	10-1320132	1155	9-9690739	42
28	98266208	1379	10-1761668	9-9615452	2538	10-0384548	10-1321277	1157	9-9689998	41
29	98266603	1379	10-1762268	9-9617989	2537	10-0382012	10-1322421	1157	9-9689257	40
30	98266998	1379	10-1762868	9-9620526	2536	10-0379475	10-1323565	1158	9-9688516	39
31	98267393	1377	10-1763468	9-9623063	2536	10-0376939	10-1324709	1159	9-9687775	38
32	98267788	1377	10-1764068	9-9625600	2536	10-0374402	10-1325853	1159	9-9687034	37
33	98268183	1376	10-1764668	9-9628137	2536	10-0371867	10-1326997	1160	9-9686293	36
34	98268578	1375	10-1765268	9-9630674	2535	10-0369331	10-1328141	1161	9-9685552	35
35	98268973	1374	10-1765868	9-9633211	2535	10-0366795	10-1329285	1161	9-9684811	34
36	98269368	1373	10-1766468	9-9635748	2535	10-0364259	10-1330429	1162	9-9684070	33
37	98269763	1373	10-1767068	9-9638285	2535	10-0361722	10-1331573	1163	9-9683329	32
38	98270158	1372	10-1767668	9-9640822	2535	10-0359186	10-1332717	1163	9-9682588	31
39	98270553	1371	10-1768268	9-9643359	2535	10-0356650	10-1333861	1164	9-9681847	30
40	98270948	1370	10-1768868	9-9645896	2535	10-0354114	10-1335005	1165	9-9681106	29
41	98271343	1370	10-1769468	9-9648433	2535	10-0351578	10-1336149	1165	9-9680365	28
42	98271738	1368	10-1770068	9-9650970	2535	10-0349042	10-1337293	1165	9-9679624	27
43	98272133	1368	10-1770668	9-9653507	2534	10-0346506	10-1338437	1167	9-9678883	26
44	98272528	1367	10-1771268	9-9656044	2535	10-0343970	10-1339581	1168	9-9678142	25
45	98272923	1365	10-1771868	9-9658581	2534	10-0341434	10-1340725	1168	9-9677401	24
46	98273318	1366	10-1772468	9-9661118	2534	10-0338898	10-1341869	1169	9-9676660	23
47	98273713	1364	10-1773068	9-9663655	2534	10-0336362	10-1343013	1169	9-9675919	22
48	98274108	1364	10-1773668	9-9666192	2534	10-0333826	10-1344157	1170	9-9675178	21
49	98274503	1364	10-1774268	9-9668729	2533	10-0331290	10-1345301	1171	9-9674437	20
50	98274898	1363	10-1774868	9-9671266	2534	10-0328754	10-1346445	1172	9-9673696	19
51	98275293	1361	10-1775468	9-9673803	2534	10-0326218	10-1347589	1172	9-9672955	18
52	98275688	1361	10-1776068	9-9676340	2534	10-0323682	10-1348733	1173	9-9672214	17
53	98276083	1361	10-1776668	9-9678877	2533	10-0321146	10-1349877	1173	9-9671473	16
54	98276478	1359	10-1777268	9-9681414	2533	10-0318610	10-1351021	1173	9-9670732	15
55	98276873	1358	10-1777868	9-9683951	2534	10-0316074	10-1352165	1175	9-9670000	14
56	98277268	1358	10-1778468	9-9686488	2533	10-0313538	10-1353309	1175	9-9669259	13
57	98277663	1356	10-1779068	9-9689025	2533	10-0310999	10-1354453	1177	9-9668518	12
58	98278058	1355	10-1779668	9-9691562	2533	10-0308463	10-1355597	1177	9-9667777	11
59	98278453	1355	10-1780268	9-9694099	2533	10-0305927	10-1356741	1177	9-9667036	10
60	98278848	1355	10-1780868	9-9696636	2533	10-0303391	10-1357885	1179	9-9666295	9
61	98279243	1353	10-1781468	9-9699173	2533	10-0300855	10-1359029	1179	9-9665554	8
62	98279638	1353	10-1782068	9-9701710	2533	10-0298319	10-1360173	1179	9-9664813	7
63	98280033	1351	10-1782668	9-9704247	2533	10-0295783	10-1361317	1179	9-9664072	6
64	98280428	1351	10-1783268	9-9706784	2533	10-0293247	10-1362461	1179	9-9663331	5
65	98280823	1350	10-1783868	9-9709321	2533	10-0290711	10-1363605	1179	9-9662590	4
66	98281218	1348	10-1784468	9-9711858	2533	10-0288175	10-1364749	1179	9-9661849	3
67	98281613	1348	10-1785068	9-9714395	2533	10-0285639	10-1365893	1179	9-9661108	2
68	98282008	1346	10-1785668	9-9716932	2533	10-0283103	10-1367037	1179	9-9660367	1
69	98282403	1345	10-1786268	9-9719469	2533	10-0280567	10-1368181	1179	9-9659626	0
70	98282798	1345	10-1786868	9-9722006	2533	10-0278031	10-1369325	1179	9-9658885	0

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	Sine	Diff.	Cosec.	Tang.	Diff.	Cotang.	Secant	Diff.	Cosine	
0	9-8337833	1355	10-1682167	0-9890560	2539	10-0308441	10-1358725	1179	9-9641575	60
1	9-8339189	1363	10-1680812	0-9890091	2533	10-0309009	10-1359004	1179	9-9640906	59
2	9-8340541	1363	10-1679459	0-9889624	2533	10-0309576	10-1359283	1180	9-9640237	58
3	9-8341894	1359	10-1678106	0-9889157	2532	10-0310143	10-1359562	1180	9-9639568	57
4	9-8343246	1351	10-1676753	0-9888690	2532	10-0310710	10-1359841	1181	9-9638899	56
5	9-8344597	1351	10-1675400	0-9888223	2532	10-0311277	10-1360120	1182	9-9638230	55
6	9-8345948	1349	10-1674047	0-9887756	2532	10-0311844	10-1360399	1183	9-9637561	54
7	9-8347297	1349	10-1672694	0-9887289	2532	10-0312411	10-1360678	1183	9-9636892	53
8	9-8348648	1348	10-1671341	0-9886822	2532	10-0312978	10-1360957	1184	9-9636223	52
9	9-8349999	1347	10-1670000	0-9886355	2532	10-0313545	10-1361236	1184	9-9635554	51
10	9-8351341	1347	10-1668655	0-9885888	2531	10-0314112	10-1361515	1186	9-9634885	50
11	9-8352688	1345	10-1667312	0-9885421	2532	10-0314679	10-1361794	1186	9-9634216	49
12	9-8354033	1345	10-1665967	0-9884954	2532	10-0315246	10-1362073	1186	9-9633547	48
13	9-8355378	1344	10-1664622	0-9884487	2531	10-0315813	10-1362352	1187	9-9632878	47
14	9-8356722	1344	10-1663277	0-9884020	2531	10-0316380	10-1362631	1188	9-9632209	46
15	9-8358066	1342	10-1661932	0-9883553	2531	10-0316947	10-1362910	1188	9-9631540	45
16	9-8359408	1342	10-1660587	0-9883086	2531	10-0317514	10-1363189	1190	9-9630871	44
17	9-8360750	1341	10-1659242	0-9882619	2531	10-0318081	10-1363468	1190	9-9630202	43
18	9-8362091	1340	10-1657897	0-9882152	2531	10-0318648	10-1363747	1191	9-9629533	42
19	9-8363431	1340	10-1656552	0-9881685	2531	10-0319215	10-1364026	1191	9-9628864	41
20	9-8364771	1338	10-1655207	0-9881218	2531	10-0319782	10-1364305	1193	9-9628195	40
21	9-8366109	1338	10-1653862	0-9880751	2531	10-0320349	10-1364584	1193	9-9627526	39
22	9-8367447	1337	10-1652517	0-9880284	2530	10-0320916	10-1364863	1193	9-9626857	38
23	9-8368784	1337	10-1651172	0-9879817	2531	10-0321483	10-1365142	1194	9-9626188	37
24	9-8370121	1335	10-1649827	0-9879350	2531	10-0322050	10-1365421	1195	9-9625519	36
25	9-8371466	1335	10-1648482	0-9878883	2530	10-0322617	10-1365700	1196	9-9624850	35
26	9-8372797	1334	10-1647137	0-9878416	2530	10-0323184	10-1365979	1197	9-9624181	34
27	9-8374125	1333	10-1645792	0-9877949	2531	10-0323751	10-1366258	1197	9-9623512	33
28	9-8375458	1332	10-1644447	0-9877482	2530	10-0324318	10-1366537	1197	9-9622843	32
29	9-8376790	1332	10-1643102	0-9877015	2530	10-0324885	10-1366816	1199	9-9622174	31
30	9-8378122	1331	10-1641757	0-9876548	2530	10-0325452	10-1367095	1199	9-9621505	30
31	9-8379453	1330	10-1640412	0-9876081	2530	10-0326019	10-1367374	1200	9-9620836	29
32	9-8380783	1329	10-1639067	0-9875614	2530	10-0326586	10-1367653	1201	9-9620167	28
33	9-8382112	1329	10-1637722	0-9875147	2530	10-0327153	10-1367932	1201	9-9619498	27
34	9-8383441	1328	10-1636377	0-9874680	2529	10-0327720	10-1368211	1202	9-9618829	26
35	9-8384769	1327	10-1635032	0-9874213	2529	10-0328287	10-1368490	1203	9-9618160	25
36	9-8386096	1326	10-1633687	0-9873746	2529	10-0328854	10-1368769	1203	9-9617491	24
37	9-8387423	1325	10-1632342	0-9873279	2529	10-0329421	10-1369048	1204	9-9616822	23
38	9-8388747	1325	10-1631000	0-9872812	2529	10-0329988	10-1369327	1205	9-9616153	22
39	9-8390072	1324	10-1629655	0-9872345	2529	10-0330555	10-1369606	1205	9-9615484	21
40	9-8391396	1323	10-1628310	0-9871878	2529	10-0331122	10-1369885	1206	9-9614815	20
41	9-8392719	1322	10-1626965	0-9871411	2529	10-0331689	10-1370164	1207	9-9614146	19
42	9-8394041	1322	10-1625620	0-9870944	2529	10-0332256	10-1370443	1208	9-9613477	18
43	9-8395363	1321	10-1624275	0-9870477	2529	10-0332823	10-1370722	1208	9-9612808	17
44	9-8396684	1320	10-1622930	0-9870010	2529	10-0333390	10-1371001	1209	9-9612139	16
45	9-8398004	1319	10-1621585	0-9869543	2529	10-0333957	10-1371280	1210	9-9611470	15
46	9-8399323	1319	10-1620240	0-9869076	2529	10-0334524	10-1371559	1210	9-9610801	14
47	9-8400643	1317	10-1618895	0-9868609	2529	10-0335091	10-1371838	1212	9-9610132	13
48	9-8401963	1317	10-1617550	0-9868142	2529	10-0335658	10-1372117	1211	9-9609463	12
49	9-8403276	1317	10-1616205	0-9867675	2528	10-0336225	10-1372396	1213	9-9608794	11
50	9-8404593	1315	10-1614860	0-9867208	2529	10-0336792	10-1372675	1213	9-9608125	10
51	9-8405906	1315	10-1613515	0-9866741	2529	10-0337359	10-1372954	1214	9-9607456	9
52	9-8407223	1314	10-1612170	0-9866274	2528	10-0337926	10-1373233	1215	9-9606787	8
53	9-8408537	1313	10-1610825	0-9865807	2529	10-0338493	10-1373512	1215	9-9606118	7
54	9-8409850	1313	10-1609480	0-9865340	2528	10-0339060	10-1373791	1216	9-9605449	6
55	9-8411163	1312	10-1608135	0-9864873	2529	10-0339627	10-1374070	1217	9-9604780	5
56	9-8412474	1311	10-1606790	0-9864406	2528	10-0340194	10-1374349	1217	9-9604111	4
57	9-8413785	1310	10-1605445	0-9863939	2528	10-0340761	10-1374628	1219	9-9603442	3
58	9-8415095	1309	10-1604100	0-9863472	2529	10-0341328	10-1374907	1218	9-9602773	2
59	9-8416404	1308	10-1602755	0-9863005	2528	10-0341895	10-1375186	1220	9-9602104	1
60	9-8417713	1308	10-1601410	0-9862538	2528	10-0342462	10-1375465	1220	9-9601435	0
	Cosine	Diff.	Secant	Cotang.	Diff.	Tang.	Cosec.	Diff.	Sine	

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	Sine	Diff.	Co-sine	Tang.	Diff.	Cotang.	Secant	Diff.	Co-sec.	
0	0.6417713	1306	10.1589207	0.6648372	2528	10.0131698	10.1430656	1290	0.6668341	80
1	0.6419021	1307	10.1590079	0.6650000	2528	10.0149100	10.1431879	1291	0.6669181	81
2	0.6420328	1306	10.1590797	0.6651426	2528	10.0146572	10.1433100	1292	0.6669900	82
3	0.6421634	1305	10.1591303	0.6652666	2528	10.0144044	10.1434322	1293	0.6670570	83
4	0.6422939	1305	10.1591701	0.6653844	2528	10.0141516	10.1435545	1292	0.6671187	84
5	0.6424244	1304	10.1591976	0.6654912	2528	10.0138988	10.1436768	1294	0.6671753	85
6	0.6425548	1303	10.1592442	0.6655850	2528	10.0136460	10.1437989	1294	0.6672268	86
7	0.6426851	1303	10.1592718	0.6656698	2528	10.0133932	10.1439216	1295	0.6672734	87
8	0.6428154	1302	10.1592846	0.6657466	2527	10.0131404	10.1440442	1296	0.6673199	88
9	0.6429456	1301	10.1592964	0.6658152	2528	10.0128877	10.1441668	1296	0.6673665	89
10	0.6430757	1300	10.1592943	0.6658761	2528	10.0126349	10.1442894	1298	0.6674126	90
11	0.6432057	1299	10.1592793	0.6659279	2527	10.0123821	10.1444122	1298	0.6674587	91
12	0.6433356	1299	10.1592644	0.6659708	2528	10.0121294	10.1445350	1299	0.6675048	92
13	0.6434655	1298	10.1592345	0.6660124	2527	10.0118766	10.1446579	1299	0.6675509	93
14	0.6435953	1297	10.1591947	0.6660531	2528	10.0116239	10.1447800	1291	0.6675962	94
15	0.6437250	1297	10.1591530	0.6660928	2527	10.0113711	10.1449030	1291	0.6676415	95
16	0.6438547	1295	10.1591153	0.6661316	2528	10.0111184	10.1450260	1291	0.6676870	96
17	0.6439843	1295	10.1590718	0.6661694	2527	10.0108656	10.1451491	1293	0.6677323	97
18	0.6441137	1293	10.1590230	0.6662071	2528	10.0106128	10.1452724	1293	0.6677776	98
19	0.6442432	1293	10.1589768	0.6662439	2527	10.0103601	10.1453967	1294	0.6678231	99
20	0.6443725	1293	10.1589278	0.6662805	2527	10.0101074	10.1455201	1295	0.6678687	100
21	0.6445018	1292	10.1588762	0.6663163	2528	10.0098547	10.1456436	1295	0.6679143	101
22	0.6446310	1291	10.1588230	0.6663501	2527	10.0096019	10.1457671	1296	0.6679599	102
23	0.6447601	1290	10.1587689	0.6663826	2527	10.0093492	10.1458907	1297	0.6680057	103
24	0.6448891	1290	10.1587109	0.6664143	2527	10.0090965	10.1460144	1297	0.6680516	104
25	0.6450181	1289	10.1586519	0.6664452	2527	10.0088438	10.1461381	1298	0.6680976	105
26	0.6451470	1288	10.1585930	0.6664753	2527	10.0085911	10.1462619	1299	0.6681437	106
27	0.6452758	1287	10.1585342	0.6665046	2527	10.0083384	10.1463859	1299	0.6681898	107
28	0.6454045	1286	10.1584755	0.6665331	2527	10.0080857	10.1465099	1299	0.6682360	108
29	0.6455332	1285	10.1584168	0.6665617	2527	10.0078330	10.1466338	1291	0.6682823	109
30	0.6456618	1285	10.1583582	0.6665897	2527	10.0075803	10.1467579	1292	0.6683287	110
31	0.6457903	1285	10.1582997	0.6666172	2527	10.0073276	10.1468821	1293	0.6683752	111
32	0.6459188	1283	10.1582412	0.6666443	2527	10.0070749	10.1470064	1294	0.6684218	112
33	0.6460471	1283	10.1581829	0.6666717	2527	10.0068222	10.1471307	1294	0.6684685	113
34	0.6461754	1282	10.1581246	0.6666986	2527	10.0065695	10.1472551	1295	0.6685153	114
35	0.6463036	1282	10.1580664	0.6667253	2527	10.0063168	10.1473796	1295	0.6685622	115
36	0.6464318	1281	10.1580083	0.6667517	2527	10.0060641	10.1475041	1296	0.6686092	116
37	0.6465599	1280	10.1579501	0.6667778	2527	10.0058114	10.1476287	1297	0.6686563	117
38	0.6466879	1279	10.1578921	0.6668037	2527	10.0055587	10.1477534	1298	0.6687035	118
39	0.6468158	1278	10.1578342	0.6668294	2526	10.0053060	10.1478782	1299	0.6687508	119
40	0.6469436	1278	10.1577764	0.6668549	2527	10.0050534	10.1480030	1299	0.6687982	120
41	0.6470714	1277	10.1577186	0.6668803	2527	10.0048007	10.1481279	1299	0.6688457	121
42	0.6471991	1276	10.1576609	0.6669055	2527	10.0045480	10.1482529	1291	0.6688933	122
43	0.6473267	1276	10.1576033	0.6669307	2526	10.0042953	10.1483780	1291	0.6689409	123
44	0.6474543	1274	10.1575457	0.6669557	2527	10.0040427	10.1485031	1292	0.6689886	124
45	0.6475817	1274	10.1574883	0.6669806	2527	10.0037900	10.1486283	1292	0.6690364	125
46	0.6477091	1274	10.1574309	0.6670054	2527	10.0035373	10.1487535	1294	0.6690843	126
47	0.6478365	1272	10.1573735	0.6670301	2526	10.0032846	10.1488789	1294	0.6691323	127
48	0.6479637	1272	10.1573163	0.6670547	2527	10.0030320	10.1490043	1295	0.6691804	128
49	0.6480909	1271	10.1572591	0.6670792	2527	10.0027793	10.1491298	1295	0.6692286	129
50	0.6482180	1270	10.1572020	0.6671036	2526	10.0025266	10.1492554	1296	0.6692769	130
51	0.6483450	1270	10.1571450	0.6671279	2527	10.0022740	10.1493810	1297	0.6693253	131
52	0.6484720	1269	10.1570880	0.6671521	2527	10.0020213	10.1495067	1298	0.6693738	132
53	0.6485989	1268	10.1570311	0.6671763	2526	10.0017686	10.1496325	1298	0.6694224	133
54	0.6487257	1267	10.1569743	0.6672004	2527	10.0015160	10.1497583	1299	0.6694711	134
55	0.6488524	1267	10.1569176	0.6672245	2526	10.0012633	10.1498843	1299	0.6695198	135
56	0.6489791	1266	10.1568610	0.6672485	2527	10.0010107	10.1500103	1299	0.6695686	136
57	0.6491057	1265	10.1568043	0.6672725	2526	10.0007580	10.1501363	1292	0.6696175	137
58	0.6492323	1264	10.1567477	0.6672964	2526	10.0005053	10.1502623	1292	0.6696665	138
59	0.6493588	1264	10.1566914	0.6673203	2527	10.0002527	10.1503883	1293	0.6697156	139
60	0.6494850	1263	10.1566350	10.0000000	2527	10.0000000	10.1505143	1294	0.6697648	140
Continue	Diff.	Secant	Cotang.	Diff.	Tang.	Co-sec.	Diff.	Sine		

45 Deg.

	0°	Diff.	1°	Diff.	2°	Diff.	3°	Diff.	4°	Diff.	
0	000000	2900	0174524	2908	0348993	2907	0523980	2904	0697968	2902	60
1	0000000	2909	0177432	2909	0351902	2907	0526982	2905	0700467	2901	59
2	0005618	2909	0180341	2908	0354810	2907	0529989	2905	0703068	2902	58
3	0006727	2909	0183249	2908	0357716	2907	0532974	2905	0705270	2901	57
4	0011630	2908	0186158	2908	0360623	2907	0535979	2904	0707971	2902	56
5	0014544	2900	0189068	2908	0363530	2907	0537983	2905	0710973	2901	55
6	0017458	2909	0191974	2909	0366437	2907	0540788	2905	0713974	2902	54
7	0020363	2900	0194883	2908	0369344	2907	0543793	2904	0717077	2901	53
8	0023271	2909	0197791	2908	0372251	2907	0546797	2905	0720077	2902	52
9	0026180	2900	0200699	2909	0375158	2907	0549802	2904	0723078	2902	51
10	0029088	2900	0203600	2908	0378065	2908	0552806	2905	0726078	2901	50
11	0031998	2909	0206516	2908	0380971	2907	0555811	2904	0729081	2901	49
12	0034907	2908	0209424	2908	0383878	2907	0558815	2904	0732082	2901	48
13	0037815	2909	0212332	2909	0386785	2907	0561819	2905	0735083	2901	47
14	0040724	2908	0215241	2908	0389692	2906	0564824	2904	0738084	2901	46
15	0043633	2908	0218149	2908	0392598	2907	0567828	2904	0741085	2902	45
16	0046542	2900	0221057	2908	0395505	2908	0570832	2904	0744086	2901	44
17	0049451	2909	0223965	2908	0398411	2907	0573836	2904	0747087	2902	43
18	0052360	2908	0226873	2908	0401318	2906	0576840	2904	0750087	2901	42
19	0055268	2909	0229781	2909	0404224	2907	0579844	2904	0753088	2901	41
20	0058177	2900	0232689	2908	0407131	2906	0582848	2904	0756089	2902	40
21	0061086	2909	0235598	2908	0410037	2907	0585852	2904	0759089	2901	39
22	0063995	2908	0238506	2908	0412944	2906	0588856	2904	0762089	2902	38
23	0066904	2908	0241414	2908	0415850	2907	0591860	2904	0765089	2902	37
24	0069813	2908	0244322	2908	0418757	2908	0594864	2903	0768089	2901	36
25	0072721	2900	0247230	2908	0421663	2908	0597867	2904	0771091	2902	35
26	0075630	2909	0250138	2908	0424569	2908	0600871	2904	0774091	2902	34
27	0078539	2909	0253046	2908	0427475	2907	0603875	2903	0777091	2902	33
28	0081448	2908	0255954	2908	0430382	2908	0606878	2904	0780091	2902	32
29	0084357	2908	0258862	2907	0433288	2908	0609882	2903	0783091	2902	31
30	0087266	2900	0261769	2908	0436194	2906	0612885	2904	0786091	2902	30
31	0090174	2900	0264677	2908	0439100	2906	0615889	2903	0789091	2902	29
32	0093083	2908	0267585	2908	0442006	2906	0618892	2904	0792091	2902	28
33	0095992	2908	0270493	2908	0444912	2906	0621896	2903	0795092	2902	27
34	0098900	2909	0273401	2908	0447818	2906	0624900	2903	0798092	2902	26
35	0101809	2909	0276309	2907	0450724	2906	0627903	2903	0801092	2902	25
36	0104718	2900	0279216	2908	0453630	2906	0630906	2903	0804092	2902	24
37	0107627	2908	0282124	2908	0456536	2906	0633909	2903	0807092	2902	23
38	0110535	2909	0285032	2908	0459442	2906	0636911	2903	0810092	2902	22
39	0113444	2908	0287940	2907	0462347	2906	0639914	2903	0813092	2902	21
40	0116353	2908	0290848	2908	0465253	2906	0642917	2903	0816092	2902	20
41	0119261	2909	0293755	2907	0468159	2906	0645920	2903	0819092	2902	19
42	0122170	2909	0296663	2908	0471065	2906	0648923	2903	0822092	2902	18
43	0125079	2908	0299570	2908	0473970	2906	0651926	2903	0825092	2902	17
44	0127987	2909	0302478	2907	0476876	2906	0654929	2902	0828092	2902	16
45	0130896	2909	0305385	2908	0479781	2906	0657931	2903	0831092	2902	15
46	0133805	2908	0308293	2907	0482687	2906	0660934	2902	0834092	2902	14
47	0136713	2900	0311200	2908	0485592	2906	0663936	2903	0837092	2902	13
48	0139622	2908	0314108	2907	0488498	2906	0666939	2902	0840092	2902	12
49	0142530	2900	0317015	2907	0491403	2905	0669941	2903	0843092	2902	11
50	0145439	2900	0319923	2908	0494308	2906	0672944	2902	0846092	2902	10
51	0148348	2908	0322830	2907	0497214	2905	0675946	2903	0849092	2902	9
52	0151256	2909	0325737	2907	0500119	2905	0678949	2902	0852092	2902	8
53	0154165	2908	0328644	2908	0503024	2905	0681951	2902	0855092	2902	7
54	0157073	2909	0331552	2907	0505929	2906	0684953	2902	0858092	2902	6
55	0159982	2908	0334459	2907	0508835	2906	0687956	2902	0861092	2902	5
56	0162890	2909	0337366	2908	0511740	2906	0690958	2902	0864092	2902	4
57	0165800	2908	0340274	2907	0514645	2906	0693961	2902	0867092	2902	3
58	0168709	2900	0343181	2907	0517550	2906	0696963	2902	0870092	2902	2
59	0171618	2908	0346088	2907	0520455	2905	0699966	2902	0873092	2902	1
60	0174524	2908	0348993	2907	0523360	2904	0702968	2902	0876092	2902	0
7	60°	Diff.	80°	Diff.	90°	Diff.	80°	Diff.	85°	Diff.	7

	5°	DIF.	6°	DIF.	7°	DIF.	8°	DIF.	9°	DIF.	
0	0871537	2898	1048283	2893	1218963	2888	1391731	2881	1564345	2873	60
1	0874455	2898	1048178	2898	1221381	2887	1394612	2880	1567218	2873	59
2	0877353	2898	1051070	2893	1224468	2887	1397492	2880	1570101	2872	58
3	0880251	2897	1053963	2898	1227355	2890	1400372	2880	1572983	2873	57
4	0883148	2896	1056856	2892	1230241	2887	1403252	2880	1575866	2872	56
5	0886046	2897	1059748	2893	1233128	2887	1406132	2880	1578748	2873	55
6	0888943	2897	1062641	2892	1236015	2886	1409019	2880	1581581	2872	54
7	0891840	2894	1065533	2892	1238901	2887	1411899	2880	1584453	2872	53
8	0894738	2897	1068425	2893	1241788	2886	1414779	2879	1587325	2872	52
9	0897635	2897	1071318	2899	1244674	2886	1417651	2880	1590197	2872	51
10	0900532	2897	1074210	2892	1247560	2886	1420531	2879	1593069	2871	50
11	0903429	2897	1077102	2892	1250446	2886	1423410	2879	1595940	2872	49
12	0906326	2897	1080004	2891	1253332	2886	1426289	2879	1598812	2871	48
13	0909223	2896	1082885	2892	1256218	2880	1429168	2879	1601683	2872	47
14	0912119	2897	1085777	2892	1259104	2886	1432047	2879	1604555	2871	46
15	0915016	2897	1088669	2891	1261990	2885	1434926	2879	1607426	2871	45
16	0917913	2896	1091560	2892	1264875	2886	1437805	2879	1610297	2870	44
17	0920809	2897	1094452	2891	1267761	2885	1440684	2878	1613167	2871	43
18	0923706	2896	1097343	2891	1270646	2885	1443562	2879	1616038	2871	42
19	0926602	2897	1100234	2892	1273531	2885	1446440	2879	1618909	2870	41
20	0929499	2896	1103126	2891	1276416	2886	1449319	2878	1621779	2871	40
21	0932395	2896	1106017	2891	1279302	2884	1452197	2878	1624650	2870	39
22	0935291	2896	1108908	2891	1282188	2885	1455075	2878	1627520	2870	38
23	0938187	2896	1111799	2890	1285071	2885	1457953	2877	1630390	2870	37
24	0941083	2896	1114689	2891	1287954	2885	1460830	2878	1633260	2869	36
25	0943979	2896	1117580	2891	1290838	2884	1463708	2877	1636129	2870	35
26	0946875	2896	1120471	2890	1293722	2884	1466585	2878	1638999	2869	34
27	0949771	2895	1123361	2891	1296606	2885	1469463	2877	1641868	2870	33
28	0952667	2896	1126252	2890	1299490	2884	1472340	2877	1644738	2869	32
29	0955562	2896	1129142	2890	1302373	2884	1475217	2877	1647607	2869	31
30	0958458	2895	1132033	2890	1305257	2884	1478094	2877	1650476	2869	30
31	0961353	2895	1134923	2890	1308141	2884	1480971	2877	1653345	2869	29
32	0964248	2895	1137812	2890	1311025	2883	1483848	2876	1656214	2869	28
33	0967144	2895	1140702	2890	1313913	2884	1486724	2877	1659082	2869	27
34	0970039	2895	1143592	2890	1316797	2884	1489601	2876	1661951	2868	26
35	0972934	2895	1146482	2890	1319681	2883	1492477	2876	1664819	2869	25
36	0975829	2895	1149372	2890	1322564	2883	1495353	2877	1667687	2869	24
37	0978724	2895	1152261	2890	1325447	2883	1498230	2876	1670555	2867	23
38	0981619	2895	1155151	2889	1328330	2883	1501106	2876	1673423	2868	22
39	0984514	2894	1158040	2889	1331213	2883	1503981	2876	1676291	2868	21
40	0987409	2895	1160929	2889	1334096	2883	1506857	2876	1679159	2867	20
41	0990303	2894	1163818	2889	1336979	2883	1509733	2875	1682026	2868	19
42	0993197	2895	1166707	2889	1339862	2882	1512608	2876	1684894	2867	18
43	0996092	2894	1169596	2890	1342744	2883	1515484	2875	1687761	2867	17
44	0998986	2895	1172485	2890	1345627	2882	1518359	2876	1690628	2867	16
45	1001881	2894	1175374	2889	1348509	2883	1521234	2875	1693495	2867	15
46	1004775	2894	1178263	2888	1351392	2882	1524109	2875	1696362	2866	14
47	1007669	2894	1181151	2889	1354274	2882	1526984	2874	1699229	2867	13
48	1010563	2894	1184040	2888	1357156	2882	1529858	2875	1702095	2866	12
49	1013457	2894	1186928	2888	1360038	2881	1532733	2874	1704961	2867	11
50	1016351	2894	1189816	2888	1362919	2882	1535607	2875	1707828	2866	10
51	1019245	2893	1192704	2889	1365801	2883	1538482	2874	1710694	2866	9
52	1022139	2894	1195592	2888	1368683	2881	1541356	2874	1713560	2865	8
53	1025032	2893	1198481	2887	1371564	2881	1544230	2874	1716425	2865	7
54	1027925	2894	1201369	2888	1374445	2882	1547104	2873	1719291	2865	6
55	1030819	2893	1204256	2888	1377327	2881	1549978	2874	1722156	2865	5
56	1033712	2893	1207144	2887	1380208	2881	1552851	2874	1725022	2865	4
57	1036605	2894	1210031	2888	1383089	2881	1555725	2873	1727887	2865	3
58	1039499	2893	1212919	2887	1385970	2880	1558598	2874	1730753	2865	2
59	1042392	2893	1215806	2887	1388850	2881	1561472	2873	1733617	2864	1
60	1045285	2893	1218693	2888	1391731	2881	1564345	2873	1736482	2864	0
	54°	DIF.	55°	DIF.	56°	DIF.	57°	DIF.	58°	DIF.	

	10°	Dif.	11°	Dif.	12°	Dif.	13°	Dif.	14°	Dif.	
0	1730468	2864	1908000	2855	2079117	2845	2248811	2834	2419819	2822	60
1	1730340	2865	1907845	2856	2078962	2845	2248635	2834	2419641	2822	59
2	1730211	2864	1907691	2855	2078807	2845	2248459	2834	2419463	2822	58
3	1730076	2864	1907536	2854	2078652	2845	2248283	2833	2419285	2822	57
4	1729938	2864	1907381	2855	2078497	2844	2248108	2834	2419107	2822	56
5	1729800	2864	1907226	2855	2078341	2845	2247932	2833	2418929	2821	55
6	1729662	2864	1907071	2854	2078186	2844	2247757	2833	2418751	2821	54
7	1729523	2864	1906916	2854	2078030	2844	2247581	2833	2418573	2821	53
8	1729385	2863	1906761	2854	2077875	2844	2247406	2833	2418395	2821	52
9	1729246	2863	1906606	2854	2077719	2843	2247230	2833	2418217	2820	51
10	1729108	2863	1906451	2854	2077564	2843	2247055	2833	2418039	2821	50
11	1728969	2863	1906296	2854	2077408	2843	2246879	2832	2417861	2820	49
12	1728831	2863	1906141	2853	2077253	2843	2246704	2832	2417683	2820	48
13	1728692	2863	1905986	2853	2077097	2843	2246528	2831	2417505	2819	47
14	1728554	2862	1905831	2853	2076942	2843	2246353	2832	2417327	2819	46
15	1728415	2863	1905676	2853	2076786	2842	2246177	2831	2417149	2819	45
16	1728277	2862	1905521	2853	2076631	2842	2246002	2831	2416971	2819	44
17	1728138	2862	1905366	2852	2076475	2842	2245826	2831	2416793	2819	43
18	1727999	2862	1905211	2853	2076320	2842	2245651	2830	2416615	2819	42
19	1727861	2862	1905056	2852	2076164	2842	2245475	2831	2416437	2818	41
20	1727722	2861	1904901	2852	2076009	2841	2245300	2830	2416259	2818	40
21	1727584	2862	1904746	2852	2075853	2841	2245124	2830	2416081	2818	39
22	1727445	2861	1904591	2852	2075698	2841	2244949	2830	2415903	2818	38
23	1727307	2861	1904436	2851	2075542	2841	2244773	2830	2415725	2817	37
24	1727168	2861	1904281	2852	2075387	2841	2244598	2830	2415547	2817	36
25	1727030	2861	1904126	2851	2075231	2841	2244422	2830	2415369	2817	35
26	1726891	2861	1903971	2851	2075076	2841	2244247	2830	2415191	2817	34
27	1726753	2861	1903816	2851	2074920	2840	2244071	2830	2415013	2817	33
28	1726614	2860	1903661	2851	2074765	2840	2243896	2830	2414835	2817	32
29	1726476	2860	1903506	2850	2074609	2840	2243720	2830	2414657	2816	31
30	1726337	2860	1903351	2850	2074454	2840	2243545	2830	2414479	2816	30
31	1726199	2860	1903196	2850	2074298	2840	2243369	2830	2414301	2816	29
32	1726060	2860	1903041	2850	2074143	2839	2243194	2830	2414123	2816	28
33	1725922	2860	1902886	2850	2073987	2839	2243018	2830	2413945	2815	27
34	1725783	2860	1902731	2850	2073832	2839	2242843	2830	2413767	2816	26
35	1725645	2860	1902576	2849	2073676	2839	2242667	2830	2413589	2815	25
36	1725506	2860	1902421	2849	2073521	2839	2242492	2830	2413411	2814	24
37	1725368	2860	1902266	2849	2073365	2839	2242316	2830	2413233	2814	23
38	1725229	2860	1902111	2849	2073210	2839	2242141	2830	2413055	2814	22
39	1725091	2860	1901956	2849	2073054	2839	2241965	2830	2412877	2814	21
40	1724952	2860	1901801	2849	2072899	2839	2241790	2830	2412699	2813	20
41	1724814	2860	1901646	2849	2072743	2839	2241614	2830	2412521	2813	19
42	1724675	2860	1901491	2848	2072588	2839	2241439	2830	2412343	2813	18
43	1724537	2860	1901336	2848	2072432	2839	2241263	2830	2412165	2813	17
44	1724398	2860	1901181	2849	2072277	2837	2241088	2830	2411987	2813	16
45	1724260	2860	1901026	2847	2072121	2837	2240912	2830	2411809	2813	15
46	1724121	2860	1900871	2848	2071966	2837	2240737	2830	2411631	2813	14
47	1723983	2860	1900716	2848	2071810	2837	2240561	2830	2411453	2813	13
48	1723844	2860	1900561	2847	2071655	2836	2240386	2830	2411275	2812	12
49	1723706	2860	1900406	2847	2071499	2836	2240210	2830	2411097	2812	11
50	1723567	2860	1900251	2847	2071344	2836	2240035	2830	2410919	2812	10
51	1723429	2860	1900096	2847	2071188	2836	2239859	2830	2410741	2811	9
52	1723290	2860	1899941	2846	2071033	2836	2239684	2830	2410563	2811	8
53	1723152	2860	1899786	2846	2070877	2836	2239508	2830	2410385	2811	7
54	1723013	2860	1899631	2846	2070722	2835	2239333	2830	2410207	2811	6
55	1722875	2860	1899476	2846	2070566	2835	2239157	2830	2410029	2811	5
56	1722736	2860	1899321	2846	2070411	2835	2238982	2830	2409851	2811	4
57	1722598	2860	1899166	2845	2070255	2835	2238806	2830	2409673	2811	3
58	1722459	2860	1899011	2845	2070100	2835	2238631	2830	2409495	2811	2
59	1722321	2860	1898856	2845	2069944	2834	2238455	2830	2409317	2811	1
60	1722182	2860	1898701	2845	2069789	2834	2238280	2830	2409139	2810	0
	79°	Dif.	78°	Dif.	77°	Dif.	76°	Dif.	75°	Dif.	

	16°	DIF.	16°	DIF.	17°	DIF.	18°	DIF.	19°	DIF.	
0	2568190	2610	2766374	2708	2922717	2783	3000170	2786	3225082	2760	69
1	2569100	2610	2767170	2708	2923490	2781	3000936	2786	3225832	2760	69
2	2569810	2609	2767965	2708	2924260	2780	3001702	2786	3226582	2760	68
3	2569428	2609	2768761	2708	2925030	2781	3002468	2786	3227332	2760	67
4	2569942	2608	2769556	2708	2925800	2781	3003234	2786	3228082	2760	66
5	2570237	2608	2770352	2708	2926570	2780	3004000	2786	3228832	2760	65
6	2570545	2608	2771147	2708	2927340	2780	3004766	2786	3229582	2760	64
7	2570763	2609	2771941	2708	2928110	2780	3005532	2786	3230332	2760	63
8	2570962	2607	2772736	2708	2928880	2780	3006298	2786	3231082	2760	62
9	2571149	2608	2773530	2708	2929650	2779	3007064	2786	3231832	2760	61
10	2571327	2608	2774324	2708	2930420	2779	3007830	2786	3232582	2760	60
11	2571495	2607	2775118	2708	2931190	2778	3008596	2786	3233332	2760	59
12	2571663	2607	2775911	2708	2931960	2778	3009362	2786	3234082	2760	48
13	2571830	2607	2776705	2708	2932730	2778	3010128	2786	3234832	2760	47
14	2572006	2606	2777499	2708	2933500	2777	3010894	2786	3235582	2760	46
15	2572182	2606	2778292	2708	2934270	2777	3011660	2786	3236332	2760	45
16	2572358	2605	2779086	2708	2935040	2777	3012426	2786	3237082	2760	44
17	2572534	2605	2779879	2708	2935810	2777	3013192	2786	3237832	2760	43
18	2572710	2606	2780673	2708	2936580	2777	3013958	2786	3238582	2760	42
19	2572886	2606	2781466	2708	2937350	2777	3014724	2786	3239332	2760	41
20	2573062	2605	2782260	2708	2938120	2776	3015490	2786	3240082	2760	40
21	2573238	2605	2783053	2708	2938890	2776	3016256	2786	3240832	2760	39
22	2573414	2605	2783847	2708	2939660	2776	3017022	2786	3241582	2760	38
23	2573590	2604	2784640	2708	2940430	2776	3017788	2786	3242332	2760	37
24	2573766	2604	2785434	2708	2941200	2775	3018554	2786	3243082	2760	36
25	2573942	2604	2786227	2708	2941970	2775	3019320	2786	3243832	2760	35
26	2574118	2603	2787021	2708	2942740	2775	3020086	2786	3244582	2760	34
27	2574294	2604	2787814	2708	2943510	2775	3020852	2786	3245332	2760	33
28	2574470	2604	2788608	2708	2944280	2775	3021618	2786	3246082	2760	32
29	2574646	2603	2789401	2708	2945050	2774	3022384	2786	3246832	2760	31
30	2574822	2603	2790195	2708	2945820	2774	3023150	2786	3247582	2760	30
31	2575000	2602	2790988	2708	2946590	2774	3023916	2786	3248332	2760	29
32	2575176	2603	2791782	2708	2947360	2773	3024682	2786	3249082	2760	28
33	2575352	2602	2792575	2708	2948130	2773	3025448	2786	3249832	2760	27
34	2575528	2602	2793369	2708	2948900	2773	3026214	2786	3250582	2760	26
35	2575704	2602	2794162	2708	2949670	2773	3026980	2786	3251332	2760	25
36	2575880	2602	2794956	2708	2950440	2773	3027746	2786	3252082	2760	24
37	2576056	2601	2795749	2708	2951210	2773	3028512	2786	3252832	2760	23
38	2576232	2601	2796543	2708	2951980	2773	3029278	2786	3253582	2760	22
39	2576408	2601	2797336	2708	2952750	2773	3030044	2786	3254332	2760	21
40	2576584	2601	2798130	2708	2953520	2773	3030810	2786	3255082	2760	20
41	2576760	2600	2798923	2708	2954290	2772	3031576	2786	3255832	2760	19
42	2576936	2600	2799717	2708	2955060	2772	3032342	2786	3256582	2760	18
43	2577112	2600	2800510	2708	2955830	2772	3033108	2786	3257332	2760	17
44	2577288	2599	2801304	2708	2956600	2772	3033874	2786	3258082	2760	16
45	2577464	2599	2802097	2708	2957370	2772	3034640	2786	3258832	2760	15
46	2577640	2599	2802891	2708	2958140	2772	3035406	2786	3259582	2760	14
47	2577816	2599	2803684	2708	2958910	2772	3036172	2786	3260332	2760	13
48	2577992	2599	2804478	2708	2959680	2772	3036938	2786	3261082	2760	12
49	2578168	2599	2805271	2708	2960450	2772	3037704	2786	3261832	2760	11
50	2578344	2598	2806065	2708	2961220	2772	3038470	2786	3262582	2760	10
51	2578520	2598	2806858	2708	2961990	2772	3039236	2786	3263332	2760	9
52	2578696	2598	2807652	2708	2962760	2772	3040002	2786	3264082	2760	8
53	2578872	2598	2808445	2708	2963530	2772	3040768	2786	3264832	2760	7
54	2579048	2598	2809239	2708	2964300	2772	3041534	2786	3265582	2760	6
55	2579224	2597	2810032	2708	2965070	2772	3042300	2786	3266332	2760	5
56	2579400	2597	2810826	2708	2965840	2772	3043066	2786	3267082	2760	4
57	2579576	2597	2811619	2708	2966610	2772	3043832	2786	3267832	2760	3
58	2579752	2597	2812413	2708	2967380	2772	3044598	2786	3268582	2760	2
59	2579928	2597	2813206	2708	2968150	2772	3045364	2786	3269332	2760	1
60	2580104	2596	2814000	2708	2968920	2772	3046130	2786	3270082	2760	0
	16°	DIF.	16°	DIF.	17°	DIF.	18°	DIF.	19°	DIF.	

	20°	Diff.	21°	Diff.	22°	Diff.	23°	Diff.	24°	Diff.	
0	3480901	2734	3583679	2716	3748066	2697	3907311	2678	4007366	2658	00
1	3482935	2733	3585635	2715	3748763	2696	3908989	2677	4007024	2657	59
2	3485068	2733	3587610	2715	3751469	2697	3911696	2677	4010781	2656	58
3	3488400	2733	3591823	2715	3754165	2696	3915343	2676	4015537	2656	57
4	3491133	2728	3594540	2714	3756862	2695	3918019	2676	4017993	2656	56
5	3493865	2728	3597254	2714	3759547	2696	3920695	2676	4020649	2656	55
6	3496597	2729	3599960	2714	3762243	2695	3923371	2676	4023305	2655	54
7	3499329	2731	3602663	2713	3764938	2694	3926047	2675	4025960	2655	53
8	3502060	2731	3605365	2713	3767632	2695	3928722	2675	4028615	2654	52
9	3504791	2730	3608068	2713	3770327	2694	3931397	2674	4031269	2654	51
10	3507521	2731	3610821	2713	3773021	2693	3934071	2674	4033923	2654	50
11	3510252	2730	3613534	2712	3775714	2694	3936745	2674	4036577	2653	49
12	3512982	2730	3616246	2712	3778408	2693	3939419	2674	4039230	2653	48
13	3515712	2729	3618958	2711	3781101	2694	3942093	2673	4041884	2653	47
14	3518441	2730	3621669	2712	3783794	2694	3944766	2673	4044536	2653	46
15	3521171	2729	3624380	2711	3786486	2692	3947439	2672	4047189	2652	45
16	3523900	2728	3627091	2711	3789178	2692	3950111	2672	4049841	2651	44
17	3526628	2729	3629802	2710	3791870	2692	3952783	2672	4052492	2651	43
18	3529357	2728	3632512	2710	3794562	2691	3955455	2672	4055144	2651	42
19	3532085	2727	3635222	2710	3797253	2691	3958127	2671	4057795	2650	41
20	3534812	2728	3637932	2709	3799944	2690	3960798	2670	4060445	2651	40
21	3537540	2727	3640641	2710	3802634	2690	3963468	2671	4063096	2649	39
22	3540267	2727	3643351	2708	3805324	2690	3966139	2670	4065745	2650	38
23	3542994	2726	3646059	2709	3808014	2690	3968809	2670	4068395	2649	37
24	3545720	2727	3648768	2708	3810704	2689	3971479	2669	4071044	2648	36
25	3548447	2726	3651476	2708	3813393	2689	3974148	2670	4073693	2648	35
26	3551173	2725	3654184	2707	3816082	2688	3976818	2668	4076342	2648	34
27	3553898	2726	3656891	2708	3818770	2689	3979486	2669	4078990	2648	33
28	3556624	2725	3659599	2707	3821459	2688	3982155	2668	4081638	2647	32
29	3559350	2725	3662306	2706	3824147	2687	3984823	2668	4084285	2647	31
30	3562074	2724	3665012	2707	3826834	2688	3987491	2667	4086932	2647	30
31	3564798	2725	3667719	2706	3829522	2687	3990158	2667	4089579	2647	29
32	3567523	2723	3670425	2705	3832209	2686	3992825	2667	4092225	2646	28
33	3570246	2724	3673130	2706	3834895	2687	3995492	2666	4094872	2645	27
34	3572970	2723	3675836	2705	3837582	2686	3998158	2667	4097517	2645	26
35	3575693	2723	3678541	2705	3840268	2685	4000825	2665	4100163	2645	25
36	3578416	2723	3681246	2704	3842953	2686	4003490	2666	4102808	2644	24
37	3581139	2723	3683950	2704	3845638	2685	4006156	2665	4105453	2644	23
38	3583862	2722	3686654	2704	3848324	2684	4008821	2665	4108097	2644	22
39	3586584	2722	3689358	2703	3851008	2685	4011486	2664	4110741	2644	21
40	3589306	2721	3692061	2704	3853693	2684	4014150	2664	4113385	2643	20
41	3592027	2721	3694765	2703	3856377	2683	4016814	2664	4116028	2643	19
42	3594748	2721	3697468	2702	3859060	2684	4019478	2663	4118671	2643	18
43	3597469	2721	3700170	2702	3861744	2683	4022141	2663	4121313	2643	17
44	3540190	2720	3702872	2702	3864427	2683	4024804	2663	4123956	2641	16
45	3542910	2720	3705574	2702	3867110	2682	4027467	2662	4126597	2642	15
46	3545630	2720	3708276	2701	3869792	2682	4030129	2662	4129239	2641	14
47	3548350	2720	3710977	2701	3872474	2683	4032791	2662	4131880	2641	13
48	3551070	2719	3713678	2701	3875156	2681	4035453	2661	4134521	2640	12
49	3553789	2719	3716379	2700	3877837	2681	4038114	2661	4137161	2640	11
50	3556508	2718	3719079	2701	3880518	2681	4040775	2661	4139801	2640	10
51	3559226	2718	3721780	2699	3883199	2681	4043436	2660	4142441	2639	9
52	3561944	2718	3724479	2700	3885880	2680	4046096	2660	4145080	2639	8
53	3564662	2718	3727179	2699	3888560	2680	4048756	2660	4147719	2639	7
54	3567380	2717	3729878	2699	3891240	2679	4051416	2659	4150358	2638	6
55	3570097	2717	3732577	2698	3893919	2679	4054075	2659	4152996	2638	5
56	3572814	2717	3735275	2698	3896598	2679	4056734	2659	4155634	2638	4
57	3575531	2717	3737973	2698	3899277	2678	4059393	2658	4158272	2637	3
58	3578248	2716	3740671	2698	3901955	2678	4062051	2658	4160909	2637	2
59	3580964	2715	3743369	2697	3904633	2678	4064709	2657	4163546	2637	1
60	3583679	2716	3746066	2697	3907311	2678	4067366	2658	4166183	2636	0
	69°	Diff.	68°	Diff.	67°	Diff.	66°	Diff.	65°	Diff.	

	25°	Diff.	26°	Diff.	27°	Diff.	28°	Diff.	29°	Diff.	
0	4226183	2036	4383711	2615	4539906	2592	4694716	2568	4848066	2544	60
1	4226819	2636	4384350	2614	4540247	2591	4695284	2568	4848604	2544	59
2	4227455	2635	4384989	2613	4540589	2591	4695829	2567	4849141	2543	58
3	4228090	2635	4385628	2613	4540930	2590	4696374	2567	4849678	2543	57
4	4228725	2635	4386267	2613	4541271	2590	4696919	2567	4850215	2542	56
5	4229360	2634	4386906	2613	4541612	2590	4697464	2566	4850752	2542	55
6	4229994	2634	4387545	2612	4541953	2589	4698009	2566	4851289	2541	54
7	4230629	2634	4388184	2611	4542294	2589	4698554	2565	4851826	2541	53
8	4231263	2633	4388823	2612	4542635	2589	4699099	2565	4852363	2541	52
9	4231898	2633	4389462	2611	4542976	2588	4699644	2565	4852900	2540	51
10	4232532	2633	4390101	2610	4543317	2588	4700189	2564	4853437	2540	50
11	4233167	2632	4390740	2611	4543658	2587	4700734	2564	4853974	2540	49
12	4233801	2632	4391379	2609	4543999	2587	4701279	2563	4854511	2539	48
13	4234436	2631	4392018	2610	4544340	2587	4701824	2563	4855048	2539	47
14	4235070	2631	4392657	2609	4544681	2586	4702369	2563	4855585	2538	46
15	4235705	2631	4393296	2609	4545022	2586	4702914	2562	4856122	2538	45
16	4236339	2631	4393935	2608	4545363	2585	4703459	2562	4856659	2538	44
17	4236974	2630	4394574	2608	4545704	2585	4704004	2561	4857196	2537	43
18	4237608	2630	4395213	2607	4546045	2584	4704549	2561	4857733	2537	42
19	4238243	2629	4395852	2607	4546386	2584	4705094	2560	4858270	2536	41
20	4238877	2629	4396491	2607	4546727	2583	4705639	2560	4858807	2536	40
21	4239512	2628	4397130	2606	4547068	2583	4706184	2559	4859344	2535	39
22	4240146	2628	4397769	2606	4547409	2583	4706729	2559	4859881	2535	38
23	4240781	2628	4398408	2605	4547750	2582	4707274	2558	4860418	2534	37
24	4241415	2627	4399047	2605	4548091	2582	4707819	2558	4860955	2534	36
25	4242050	2627	4399686	2605	4548432	2582	4708364	2557	4861492	2533	35
26	4242684	2627	4400325	2604	4548773	2581	4708909	2557	4862029	2533	34
27	4243319	2626	4400964	2604	4549114	2581	4709454	2556	4862566	2532	33
28	4243953	2626	4401603	2603	4549455	2580	4710000	2556	4863103	2532	32
29	4244588	2626	4402242	2603	4549796	2580	4710545	2555	4863640	2531	31
30	4245222	2625	4402881	2603	4550137	2579	4711090	2555	4864177	2531	30
31	4245857	2625	4403520	2602	4550478	2579	4711635	2554	4864714	2530	29
32	4246491	2625	4404159	2602	4550819	2578	4712180	2554	4865251	2530	28
33	4247126	2624	4404798	2602	4551160	2578	4712725	2553	4865788	2529	27
34	4247760	2624	4405437	2601	4551501	2577	4713270	2553	4866325	2529	26
35	4248395	2624	4406076	2601	4551842	2577	4713815	2552	4866862	2528	25
36	4249029	2623	4406715	2601	4552183	2576	4714360	2552	4867399	2528	24
37	4249664	2623	4407354	2600	4552524	2576	4714905	2551	4867936	2527	23
38	4250298	2623	4407993	2600	4552865	2575	4715450	2551	4868473	2527	22
39	4250933	2622	4408632	2600	4553206	2575	4715995	2550	4869010	2526	21
40	4251567	2622	4409271	2599	4553547	2574	4716540	2550	4869547	2526	20
41	4252202	2622	4409910	2599	4553888	2574	4717085	2549	4870084	2525	19
42	4252836	2621	4410549	2598	4554229	2573	4717630	2549	4870621	2525	18
43	4253471	2621	4411188	2598	4554570	2573	4718175	2548	4871158	2524	17
44	4254105	2621	4411827	2597	4554911	2572	4718720	2548	4871695	2524	16
45	4254740	2620	4412466	2597	4555252	2572	4719265	2547	4872232	2523	15
46	4255374	2620	4413105	2596	4555593	2571	4719810	2547	4872769	2523	14
47	4256009	2619	4413744	2596	4555934	2571	4720355	2546	4873306	2522	13
48	4256643	2619	4414383	2595	4556275	2570	4720900	2546	4873843	2522	12
49	4257278	2618	4415022	2595	4556616	2570	4721445	2545	4874380	2521	11
50	4257912	2618	4415661	2594	4556957	2569	4721990	2545	4874917	2521	10
51	4258547	2618	4416300	2594	4557298	2569	4722535	2544	4875454	2520	9
52	4259181	2617	4416939	2593	4557639	2568	4723080	2544	4875991	2520	8
53	4259816	2617	4417578	2593	4557980	2568	4723625	2543	4876528	2519	7
54	4260450	2616	4418217	2592	4558321	2567	4724170	2543	4877065	2519	6
55	4261085	2616	4418856	2592	4558662	2567	4724715	2542	4877602	2518	5
56	4261719	2615	4419495	2591	4559003	2566	4725260	2542	4878139	2518	4
57	4262354	2615	4420134	2591	4559344	2566	4725805	2541	4878676	2517	3
58	4262988	2614	4420773	2590	4559685	2565	4726350	2541	4879213	2517	2
59	4263623	2614	4421412	2590	4560026	2565	4726895	2540	4879750	2516	1
60	4264257	2613	4422051	2589	4560367	2564	4727440	2540	4880287	2516	0
	64°	Diff.	63°	Diff.	62°	Diff.	61°	Diff.	60°	Diff.	

	30°	Diff.	31°	Diff.	32°	Diff.	33°	Diff.	34°	Diff.	
0	5000000	2510	5150381	2493	5300103	2466	5446390	2440	5591929	2411	60
1	5002519	2518	5152874	2493	5301650	2460	5448830	2439	5594340	2411	59
2	5005037	2519	5155367	2492	5304125	2466	5451269	2438	5596751	2411	58
3	5007556	2517	5157859	2492	5306591	2466	5453707	2438	5599162	2410	57
4	5010073	2516	5160351	2491	5309057	2464	5456145	2438	5601573	2409	56
5	5012589	2516	5162842	2491	5311521	2465	5458583	2437	5603981	2409	55
6	5015107	2517	5165333	2491	5313986	2464	5461020	2436	5606390	2408	54
7	5017624	2516	5167824	2490	5316450	2463	5463456	2436	5608798	2408	53
8	5020140	2515	5170314	2490	5318913	2463	5465892	2436	5611206	2408	52
9	5022655	2515	5172804	2489	5321376	2463	5468328	2435	5613614	2407	51
10	5025170	2515	5175293	2489	5323839	2462	5470763	2435	5616021	2407	50
11	5027685	2514	5177782	2488	5326301	2462	5473198	2434	5618428	2406	49
12	5030199	2514	5180270	2488	5328763	2461	5475632	2434	5620834	2406	48
13	5032713	2514	5182758	2488	5331224	2461	5478065	2433	5623239	2405	47
14	5035227	2513	5185246	2487	5333685	2461	5480499	2433	5625645	2404	46
15	5037740	2512	5187733	2486	5336145	2460	5482932	2433	5628049	2404	45
16	5040252	2513	5190219	2486	5338605	2460	5485365	2432	5630453	2404	44
17	5042765	2511	5192705	2485	5341065	2459	5487797	2431	5632857	2403	43
18	5045276	2512	5195191	2485	5343523	2459	5490228	2431	5635260	2403	42
19	5047788	2510	5197676	2485	5345982	2458	5492659	2431	5637663	2403	41
20	5050298	2511	5200161	2485	5348440	2458	5495090	2430	5640066	2401	40
21	5052809	2510	5202646	2484	5350898	2457	5497520	2430	5642469	2402	39
22	5055319	2509	5205131	2483	5353355	2457	5499950	2429	5644870	2401	38
23	5057828	2510	5207613	2483	5355812	2456	5502379	2428	5647270	2400	37
24	5060338	2508	5210096	2483	5358268	2456	5504807	2429	5649670	2400	36
25	5062846	2509	5212579	2482	5360724	2455	5507236	2427	5652070	2399	35
26	5065355	2508	5215061	2482	5363179	2455	5509663	2428	5654469	2399	34
27	5067863	2507	5217543	2481	5365634	2455	5512091	2427	5656868	2399	33
28	5070370	2507	5220024	2481	5368089	2454	5514518	2426	5659267	2398	32
29	5072877	2507	5222505	2481	5370543	2454	5516944	2426	5661665	2397	31
30	5075384	2506	5224986	2480	5372996	2453	5519370	2425	5664062	2397	30
31	5077890	2506	5227466	2479	5375449	2453	5521795	2425	5666459	2397	29
32	5080396	2505	5229945	2479	5377902	2452	5524220	2425	5668856	2396	28
33	5082901	2505	5232424	2479	5380354	2452	5526645	2424	5671252	2396	27
34	5085406	2504	5234903	2478	5382806	2451	5529069	2423	5673648	2395	26
35	5087910	2504	5237381	2478	5385257	2451	5531492	2423	5676043	2394	25
36	5090414	2504	5239859	2477	5387708	2450	5533915	2423	5678437	2394	24
37	5092918	2503	5242336	2477	5390158	2450	5536338	2422	5680832	2393	23
38	5095421	2503	5244813	2477	5392608	2450	5538760	2422	5683225	2392	22
39	5097924	2502	5247290	2476	5395058	2449	5541182	2421	5685619	2392	21
40	5100428	2502	5249766	2475	5397507	2448	5543603	2421	5688011	2392	20
41	5102928	2501	5252241	2475	5399955	2448	5546024	2420	5690403	2392	19
42	5105429	2501	5254717	2474	5402403	2448	5548444	2420	5692795	2392	18
43	5107930	2501	5257191	2474	5404851	2447	5550864	2419	5695187	2392	17
44	5110431	2500	5259665	2474	5407298	2447	5553283	2419	5697577	2391	16
45	5112931	2500	5262139	2474	5409745	2446	5555702	2419	5699968	2391	15
46	5115431	2499	5264613	2473	5412191	2446	5558121	2418	5702357	2390	14
47	5117930	2499	5267087	2473	5414637	2445	5560539	2417	5704747	2389	13
48	5120429	2498	5269558	2473	5417082	2445	5562956	2417	5707136	2389	12
49	5122928	2498	5272030	2473	5419527	2444	5565373	2417	5709524	2388	11
50	5125425	2498	5274502	2471	5421971	2444	5567790	2416	5711912	2387	10
51	5127923	2497	5276973	2470	5424415	2444	5570206	2415	5714299	2387	9
52	5130420	2496	5279443	2471	5426859	2443	5572621	2415	5716686	2387	8
53	5132916	2497	5281914	2469	5429302	2442	5575036	2415	5719073	2386	7
54	5135413	2495	5284383	2470	5431744	2443	5577451	2414	5721459	2386	6
55	5137908	2496	5286853	2469	5434187	2441	5579865	2414	5723844	2385	5
56	5140404	2495	5289322	2468	5436628	2441	5582279	2413	5726229	2385	4
57	5142899	2494	5291790	2468	5439069	2441	5584693	2413	5728614	2384	3
58	5145393	2494	5294258	2468	5441510	2441	5587105	2412	5730998	2383	2
59	5147887	2494	5296726	2467	5443951	2439	5589517	2412	5733381	2383	1
60	5150381	2493	5299193	2466	5446390	2440	5591929	2411	5735764	2383	0
	30°	Diff.	31°	Diff.	32°	Diff.	33°	Diff.	34°	Diff.	

	35°	DIF.	36°	DIF.	37°	DIF.	38°	DIF.	39°	DIF.	
0	5735764	2383	5877833	2383	6018160	2323	6156615	2292	6293204	2260	60
1	5738147	2382	5880206	2382	6020473	2322	6158907	2291	6295404	2260	61
2	5740529	2382	5882558	2382	6022795	2322	6161198	2291	6297724	2259	62
3	5742911	2381	5884910	2382	6025117	2322	6163489	2291	6299963	2259	63
4	5745292	2380	5887262	2381	6027439	2321	6165780	2290	6302242	2258	64
5	5747672	2381	5889613	2381	6029760	2320	6168069	2290	6304560	2258	65
6	5750053	2379	5891964	2380	6032080	2320	6170339	2289	6306758	2257	66
7	5752432	2379	5894314	2349	6034400	2319	6172648	2288	6309015	2257	67
8	5754811	2379	5896663	2349	6036719	2319	6174936	2288	6311279	2256	68
9	5757190	2378	5899012	2349	6039038	2318	6177224	2287	6313528	2255	69
10	5759568	2378	5901361	2349	6041356	2318	6179511	2287	6315794	2255	70
11	5761946	2377	5903709	2348	6043674	2317	6181798	2286	6318039	2254	71
12	5764323	2377	5906057	2347	6045991	2317	6184084	2286	6320283	2254	72
13	5766700	2376	5908404	2346	6048308	2316	6186370	2285	6322547	2253	73
14	5769076	2376	5910750	2346	6050624	2316	6188655	2284	6324800	2253	74
15	5771452	2375	5913096	2346	6052940	2315	6190939	2285	6327053	2253	75
16	5773827	2375	5915442	2345	6055255	2315	6193224	2285	6329306	2251	76
17	5776202	2374	5917787	2345	6057570	2314	6195507	2283	6331557	2250	77
18	5778576	2374	5920132	2344	6059884	2314	6197790	2283	6333809	2250	78
19	5780950	2373	5922476	2343	6062198	2313	6200073	2282	6336059	2251	79
20	5783323	2373	5924819	2344	6064511	2313	6202355	2281	6338310	2249	80
21	5785696	2373	5927163	2342	6066824	2312	6204636	2281	6340559	2249	81
22	5788069	2371	5929505	2342	6069136	2311	6206917	2280	6342806	2249	82
23	5790442	2372	5931847	2342	6071447	2311	6209198	2280	6345057	2248	83
24	5792815	2371	5934189	2341	6073758	2311	6211478	2279	6347305	2248	84
25	5795183	2370	5936530	2341	6076069	2310	6213757	2279	6349553	2247	85
26	5797553	2370	5938871	2340	6078379	2310	6216036	2278	6351800	2246	86
27	5799922	2369	5941211	2339	6080689	2309	6218314	2278	6354046	2246	87
28	5802292	2369	5943550	2339	6082998	2308	6220592	2278	6356292	2245	88
29	5804661	2369	5945889	2339	6085306	2308	6222870	2276	6358537	2245	89
30	5807030	2367	5948228	2338	6087614	2308	6225146	2277	6360782	2244	90
31	5809397	2368	5950566	2338	6089922	2307	6227423	2275	6363026	2244	91
32	5811765	2367	5952904	2337	6092229	2306	6229698	2276	6365270	2243	92
33	5814132	2366	5955241	2336	6094535	2306	6231974	2274	6367513	2243	93
34	5816498	2365	5957577	2336	6096841	2305	6234248	2274	6369756	2242	94
35	5818864	2366	5959913	2335	6099147	2305	6236522	2274	6371998	2242	95
36	5821230	2365	5962249	2335	6101452	2304	6238796	2273	6374240	2241	96
37	5823595	2364	5964584	2334	6103756	2304	6241069	2273	6376481	2240	97
38	5825959	2364	5966919	2334	6106060	2303	6243342	2272	6378721	2240	98
39	5828323	2364	5969252	2334	6108363	2303	6245614	2271	6380961	2240	99
40	5830687	2363	5971586	2333	6110666	2303	6247885	2271	6383200	2239	100
41	5833050	2362	5973919	2332	6112969	2301	6250156	2271	6385440	2239	101
42	5835412	2362	5976251	2332	6115270	2302	6252427	2269	6387678	2238	102
43	5837774	2362	5978583	2332	6117572	2301	6254696	2270	6389916	2237	103
44	5840136	2361	5980915	2331	6119873	2300	6256966	2269	6392153	2237	104
45	5842497	2360	5983246	2331	6122173	2300	6259235	2268	6394390	2236	105
46	5844857	2360	5985577	2329	6124473	2299	6261503	2268	6396626	2236	106
47	5847217	2360	5987908	2330	6126773	2299	6263771	2267	6398862	2235	107
48	5849577	2359	5990239	2329	6129071	2298	6266038	2267	6401097	2235	108
49	5851936	2358	5992568	2328	6131369	2297	6268306	2266	6403332	2234	109
50	5854294	2358	5994893	2328	6133666	2298	6270571	2266	6405566	2233	110
51	5856652	2358	5997221	2328	6135964	2296	6272837	2265	6407799	2233	111
52	5859010	2357	5999549	2327	6138260	2296	6275102	2264	6410032	2232	112
53	5861367	2357	6001876	2326	6140556	2295	6277368	2265	6412264	2232	113
54	5863724	2356	6004202	2326	6142853	2295	6279631	2263	6414496	2232	114
55	5866080	2355	6006528	2326	6145147	2295	6281894	2263	6416728	2230	115
56	5868435	2355	6008854	2325	6147442	2294	6284157	2263	6418959	2231	116
57	5870790	2355	6011179	2324	6149738	2293	6286420	2262	6421189	2230	117
58	5873145	2354	6013503	2324	6152029	2293	6288682	2261	6423418	2229	118
59	5875499	2354	6015827	2323	6154322	2293	6290943	2261	6425647	2229	119
60	5877853	2353	6018150	2323	6156615	2292	6293204	2260	6427876	2228	120
	34°	DIF.	35°	DIF.	36°	DIF.	37°	DIF.	38°	DIF.	

	40°	Diff.	41°	Diff.	42°	Diff.	43°	Diff.	44°	Diff.	
0	6427876	2228	6500500	2195	6691306	2163	6819904	2127	6946504	2092	60
1	6430104	2220	6502785	2193	6693468	2160	6822111	2126	6948676	2091	59
2	6432332	2227	6504990	2194	6695628	2161	6824237	2126	6950767	2091	58
3	6434559	2226	6507174	2193	6697779	2159	6826363	2126	6952858	2091	57
4	6436785	2226	6509367	2193	6699948	2160	6828489	2124	6954949	2090	56
5	6439011	2225	6511560	2192	6702108	2158	6830613	2125	6957039	2089	55
6	6441236	2225	6513752	2192	6704269	2158	6832738	2123	6959128	2089	54
7	6443461	2224	6515944	2191	6706424	2158	6834861	2123	6961217	2088	53
8	6445685	2224	6518135	2191	6708582	2157	6836984	2123	6963305	2087	52
9	6447909	2223	6520326	2190	6710739	2156	6839107	2122	6965393	2087	51
10	6450132	2223	6522516	2190	6712895	2156	6841229	2121	6967479	2086	50
11	6452355	2222	6524706	2189	6715051	2155	6843350	2121	6969565	2086	49
12	6454577	2221	6526895	2188	6717206	2155	6845471	2120	6971651	2085	48
13	6456798	2221	6529083	2188	6719361	2154	6847591	2120	6973736	2085	47
14	6459019	2221	6531271	2187	6721515	2154	6849711	2119	6975821	2084	46
15	6461240	2220	6533458	2187	6723668	2153	6851830	2118	6977905	2083	45
16	6463460	2219	6535645	2186	6725821	2152	6853948	2118	6979988	2083	44
17	6465679	2219	6537831	2186	6727973	2152	6856066	2118	6982071	2082	43
18	6467899	2218	6540017	2185	6730125	2151	6858184	2116	6984153	2081	42
19	6470116	2218	6542202	2184	6732276	2151	6860300	2116	6986234	2081	41
20	6472334	2217	6544386	2184	6734427	2150	6862416	2116	6988315	2081	40
21	6474551	2216	6546570	2184	6736577	2150	6864532	2115	6990396	2080	39
22	6476767	2217	6548754	2182	6738727	2149	6866647	2114	6992476	2079	38
23	6478984	2215	6550936	2183	6740876	2148	6868761	2114	6994555	2078	37
24	6481199	2215	6553119	2181	6743024	2148	6870875	2113	6996633	2078	36
25	6483414	2214	6555300	2182	6745172	2147	6872989	2113	6998711	2078	35
26	6485628	2214	6557482	2180	6747319	2147	6875101	2112	7000789	2077	34
27	6487842	2214	6559663	2180	6749466	2146	6877213	2112	7002866	2076	33
28	6490056	2212	6561842	2180	6751612	2145	6879325	2110	7004942	2076	32
29	6492269	2212	6564022	2178	6753757	2145	6881435	2111	7007018	2075	31
30	6494480	2212	6566200	2179	6755902	2144	6883546	2109	7009093	2074	30
31	6496692	2211	6568379	2178	6758046	2144	6885655	2110	7011167	2074	29
32	6498903	2211	6570557	2177	6760190	2143	6887765	2108	7013241	2073	28
33	6501114	2210	6572733	2176	6762333	2143	6889873	2108	7015314	2073	27
34	6503324	2209	6574910	2177	6764476	2142	6891981	2108	7017387	2072	26
35	6505533	2209	6577087	2175	6766618	2142	6894089	2106	7019450	2072	25
36	6507742	2209	6579262	2175	6768760	2141	6896195	2107	7021521	2070	24
37	6509951	2207	6581437	2175	6770901	2140	6898302	2105	7023600	2071	23
38	6512158	2208	6583612	2173	6773041	2140	6900407	2105	7025679	2069	22
39	6514366	2206	6585785	2174	6775181	2139	6902512	2105	7027747	2070	21
40	6516573	2206	6587959	2172	6777320	2139	6904617	2104	7029811	2068	20
41	6518778	2206	6590131	2173	6779459	2138	6906721	2103	7031879	2068	19
42	6520984	2205	6592304	2171	6781597	2137	6908824	2103	7033947	2067	18
43	6523189	2205	6594475	2171	6783734	2137	6910927	2102	7036014	2067	17
44	6525394	2204	6596646	2171	6785871	2136	6913029	2102	7038081	2066	16
45	6527598	2203	6598817	2170	6788007	2135	6915131	2101	7040147	2066	15
46	6529801	2203	6600987	2169	6790143	2135	6917232	2100	7042213	2065	14
47	6532004	2202	6603156	2169	6792278	2135	6919332	2100	7044278	2064	13
48	6534206	2202	6605325	2168	6794413	2134	6921432	2099	7046342	2064	12
49	6536408	2201	6607493	2168	6796547	2134	6923531	2099	7048406	2063	11
50	6538609	2201	6609661	2167	6798681	2133	6925630	2098	7050469	2063	10
51	6540810	2200	6611828	2166	6800813	2132	6927728	2097	7052532	2062	9
52	6543010	2199	6613994	2165	6802946	2132	6929825	2097	7054595	2061	8
53	6545209	2199	6616160	2165	6805078	2131	6931922	2096	7056658	2061	7
54	6547408	2199	6618325	2164	6807209	2130	6934018	2096	7058716	2060	6
55	6549607	2197	6620490	2165	6809339	2130	6936114	2095	7060776	2059	5
56	6551804	2198	6622655	2163	6811469	2130	6938209	2095	7062835	2059	4
57	6554002	2196	6624818	2163	6813599	2129	6940304	2094	7064894	2058	3
58	6556198	2197	6626981	2163	6815729	2128	6942398	2093	7066953	2058	2
59	6558393	2195	6629144	2162	6817856	2128	6944491	2093	7069011	2057	1
60	6560580	2195	6631306	2162	6819984	2127	6946584	2092	7071068	2056	0
	49°	Diff.	48°	Diff.	47°	Diff.	46°	Diff.	45°	Diff.	

	45°	Diff.	46°	Diff.	47°	Diff.	48°	Diff.	49°	Diff.	
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1	7073124	2036	7195418	2020	7315521	1982	7433394	1946	7549004	1907	59
2	7075180	2056	7197438	2019	7317503	1903	7435340	1945	7550911	1907	58
3	7077236	2055	7199457	2019	7319486	1901	7437285	1944	7552818	1906	57
4	7079291	2054	7201476	2018	7321467	1909	7439229	1944	7554794	1906	56
5	7081345	2053	7203494	2017	7323449	1900	7441173	1942	7556630	1905	55
6	7083398	2053	7205511	2017	7325429	1900	7443115	1943	7558535	1904	54
7	7085451	2053	7207528	2016	7327409	1979	7445058	1941	7560439	1904	53
8	7087504	2052	7209544	2015	7329388	1979	7446999	1942	7562343	1903	52
9	7089556	2051	7211559	2015	7331367	1978	7448941	1940	7564246	1902	51
10	7091607	2050	7213574	2015	7333345	1977	7450881	1940	7566148	1902	50
11	7093657	2050	7215589	2013	7335322	1977	7452821	1939	7568050	1901	49
12	7095707	2050	7217602	2013	7337299	1976	7454760	1939	7569951	1901	48
13	7097757	2049	7219615	2013	7339275	1975	7456699	1937	7571851	1900	47
14	7099806	2048	7221628	2012	7341250	1975	7458636	1938	7573751	1899	46
15	7101854	2047	7223640	2011	7343225	1974	7460574	1936	7575650	1898	45
16	7103901	2047	7225651	2010	7345199	1974	7462510	1936	7577548	1898	44
17	7105948	2047	7227661	2010	7347173	1973	7464445	1936	7579446	1897	43
18	7107993	2046	7229671	2010	7349146	1972	7466382	1935	7581343	1897	42
19	7110041	2045	7231681	2009	7351118	1972	7468317	1934	7583240	1896	41
20	7112086	2044	7233690	2008	7353090	1971	7470251	1933	7585136	1895	40
21	7114130	2044	7235698	2007	7355061	1971	7472184	1933	7587031	1895	39
22	7116174	2044	7237705	2007	7357032	1970	7474117	1932	7588926	1894	38
23	7118218	2042	7239712	2007	7359003	1969	7476049	1932	7590820	1893	37
24	7120260	2043	7241719	2005	7360971	1969	7477981	1931	7592713	1893	36
25	7122303	2041	7243724	2005	7362940	1968	7479912	1930	7594606	1892	35
26	7124344	2041	7245729	2005	7364908	1967	7481842	1930	7596498	1891	34
27	7126385	2041	7247734	2004	7366875	1967	7483772	1929	7598389	1891	33
28	7128426	2039	7249738	2003	7368842	1968	7485701	1928	7600280	1890	32
29	7130465	2039	7251741	2003	7370808	1965	7487629	1928	7602170	1890	31
30	7132504	2039	7253744	2002	7372773	1965	7489557	1927	7604060	1889	30
31	7134543	2038	7255747	2001	7374739	1965	7491484	1927	7605949	1889	29
32	7136581	2037	7257747	2001	7376703	1963	7493411	1926	7607837	1887	28
33	7138618	2037	7259748	2000	7378666	1963	7495337	1925	7609724	1887	27
34	7140655	2036	7261748	2000	7380629	1963	7497262	1925	7611611	1886	26
35	7142691	2036	7263748	1999	7382592	1961	7499187	1924	7613497	1886	25
36	7144727	2035	7265747	1998	7384553	1962	7501111	1923	7615383	1885	24
37	7146762	2034	7267745	1998	7386515	1960	7503034	1923	7617268	1884	23
38	7148796	2034	7269743	1997	7388475	1960	7504957	1922	7619152	1884	22
39	7150830	2033	7271740	1996	7390435	1959	7506879	1921	7621036	1883	21
40	7152863	2032	7273736	1996	7392394	1959	7508800	1921	7622919	1883	20
41	7154895	2032	7275732	1996	7394353	1958	7510721	1920	7624802	1881	19
42	7156927	2032	7277728	1994	7396311	1957	7512641	1920	7626685	1881	18
43	7158959	2030	7279722	1994	7398268	1957	7514561	1919	7628568	1881	17
44	7160989	2030	7281716	1994	7400225	1956	7516480	1918	7630454	1880	16
45	7163019	2030	7283710	1993	7402181	1956	7518398	1918	7632325	1879	15
46	7165049	2029	7285703	1992	7404137	1955	7520316	1917	7634204	1878	14
47	7167078	2028	7287695	1991	7406092	1954	7522233	1916	7636089	1878	13
48	7169106	2028	7289688	1991	7408046	1954	7524149	1916	7637970	1878	12
49	7171134	2027	7291677	1991	7410000	1953	7526065	1915	7639853	1876	11
50	7173161	2026	7293668	1989	7411953	1952	7527980	1914	7641714	1876	10
51	7175187	2026	7295657	1989	7413905	1952	7529894	1914	7643580	1875	9
52	7177213	2025	7297646	1989	7415857	1951	7531808	1913	7645445	1875	8
53	7179238	2025	7299635	1988	7417808	1950	7533721	1913	7647340	1874	7
54	7181263	2024	7301623	1987	7419758	1950	7535634	1912	7649214	1873	6
55	7183287	2023	7303610	1987	7421708	1950	7537546	1911	7651087	1873	5
56	7185310	2023	7305597	1986	7423658	1948	7539457	1911	7652960	1872	4
57	7187333	2022	7307583	1985	7425606	1948	7541368	1910	7654832	1872	3
58	7189355	2022	7309568	1985	7427554	1948	7543278	1909	7656704	1870	2
59	7191377	2021	7311553	1984	7429502	1946	7545187	1908	7658574	1870	1
60	7193398	2020	7313537	1984	7431448	1946	7547096	1908	7660444	1870	0
7	44°	Diff.	45°	Diff.	46°	Diff.	47°	Diff.	48°	Diff.	7

	50°	Diff.	51°	Diff.	52°	Diff.	53°	Diff.	54°	Diff.	
0	7861444	1870	7771460	1830	7880108	1790	7886355	1750	8080170	1709	60
1	7862314	1869	7772320	1830	7881894	1790	7888105	1750	8081879	1709	60
2	7863183	1868	7773190	1830	7883680	1789	7889895	1749	8083588	1708	58
3	7864051	1867	7774049	1830	7885477	1789	7891694	1748	8085296	1708	57
4	7864918	1867	7774877	1827	7887266	1788	7893482	1748	8087004	1708	56
5	7865785	1867	7775704	1827	7889054	1787	7895270	1747	8088711	1708	55
6	7866652	1866	7776531	1827	7890841	1786	7897057	1746	8100418	1708	54
7	7867517	1865	7777358	1826	7892627	1786	7898843	1745	8102125	1704	53
8	7868382	1864	7778185	1825	7894413	1785	7900629	1745	8103832	1704	52
9	7869246	1864	7779009	1824	7896198	1785	7902415	1744	8105539	1704	51
10	7870110	1863	7779833	1824	7897983	1784	7904201	1744	8107246	1703	50
11	7870973	1862	7780657	1823	7899767	1783	7905986	1743	8108953	1702	49
12	7871835	1862	7781480	1823	7901550	1783	7907771	1742	8110660	1701	48
13	7872697	1861	7782303	1822	7903333	1782	7909556	1741	8112367	1701	47
14	7873558	1860	7783126	1821	7905115	1781	7911340	1741	8114074	1700	46
15	7874418	1860	7783949	1820	7906898	1780	7913123	1740	8115781	1699	45
16	7875278	1859	7784772	1820	7908680	1780	7914906	1740	8117488	1698	44
17	7876137	1859	7785595	1819	7910462	1779	7916689	1738	8119195	1698	43
18	7876996	1857	7786418	1819	7912245	1779	7918472	1739	8120902	1697	42
19	7877855	1857	7787241	1817	7914027	1778	7920255	1737	8122609	1697	41
20	7878713	1857	7788064	1817	7915809	1777	7922038	1737	8124316	1696	40
21	7879571	1856	7788887	1817	7917592	1776	7923821	1736	8126023	1695	39
22	7880429	1855	7789710	1816	7919375	1776	7925604	1735	8127730	1694	38
23	7881287	1854	7790533	1815	7921157	1775	7927387	1735	8129437	1694	37
24	7882145	1854	7791356	1814	7922940	1775	7929170	1734	8131144	1693	36
25	7883003	1854	7792179	1814	7924723	1774	7930953	1733	8132851	1692	35
26	7883861	1853	7793002	1813	7926506	1773	7932736	1733	8134558	1691	34
27	7884719	1852	7793825	1813	7928289	1773	7934519	1732	8136265	1691	33
28	7885577	1851	7794648	1811	7930072	1772	7936302	1731	8137972	1691	32
29	7886435	1851	7795471	1812	7931855	1771	7938085	1731	8139679	1690	31
30	7887293	1850	7796294	1810	7933638	1771	7939868	1730	8141386	1690	30
31	7888151	1849	7797117	1810	7935421	1770	7941651	1729	8143093	1689	29
32	7889009	1849	7797940	1809	7937204	1769	7943434	1728	8144799	1688	28
33	7889867	1848	7798763	1809	7938987	1768	7945217	1728	8146506	1687	27
34	7890725	1847	7799586	1808	7940770	1768	7946999	1727	8148213	1686	26
35	7891583	1847	7800409	1808	7942553	1767	7948782	1727	8149920	1685	25
36	7892441	1846	7801232	1808	7944336	1767	7950565	1726	8151627	1684	24
37	7893299	1845	7802055	1808	7946119	1766	7952348	1725	8153334	1684	23
38	7894157	1845	7802878	1805	7947902	1766	7954131	1724	8155041	1683	22
39	7895015	1844	7803701	1805	7949685	1764	7955914	1724	8156748	1683	21
40	7895873	1843	7804524	1804	7951468	1764	7957697	1723	8158455	1682	20
41	7896731	1843	7805347	1803	7953251	1763	7959480	1723	8160162	1681	19
42	7897589	1842	7806170	1802	7955034	1763	7961263	1722	8161869	1681	18
43	7898447	1842	7806993	1802	7956817	1762	7963046	1721	8163576	1680	17
44	7899305	1840	7807816	1801	7958600	1761	7964829	1720	8165283	1680	16
45	7900163	1841	7808639	1801	7960383	1760	7966612	1720	8166990	1679	15
46	7901021	1839	7809462	1800	7962166	1760	7968395	1719	8168697	1678	14
47	7901879	1839	7810285	1799	7963949	1759	7970178	1718	8170404	1677	13
48	7902737	1838	7811108	1798	7965732	1759	7971961	1718	8172111	1676	12
49	7903595	1838	7811931	1798	7967515	1757	7973744	1717	8173818	1675	11
50	7904453	1836	7812754	1798	7969298	1757	7975527	1716	8175525	1674	10
51	7905311	1837	7813577	1796	7971081	1757	7977310	1716	8177232	1673	9
52	7906169	1836	7814400	1796	7972864	1755	7979093	1715	8178939	1672	8
53	7907027	1835	7815223	1795	7974647	1755	7980876	1714	8180646	1671	7
54	7907885	1834	7816046	1795	7976430	1753	7982659	1713	8182353	1670	6
55	7908743	1834	7816869	1794	7978213	1753	7984442	1712	8184060	1669	5
56	7909601	1833	7817692	1793	7979996	1753	7986225	1712	8185767	1668	4
57	7910459	1832	7818515	1793	7981779	1751	7988008	1711	8187474	1667	3
58	7911317	1832	7819338	1792	7983562	1751	7989791	1710	8189181	1666	2
59	7912175	1831	7820161	1792	7985345	1751	7991574	1710	8190888	1665	1
60	7913033	1830	7820984	1790	7987128	1750	7993357	1709	8192595	1664	0
	50°	Diff.	51°	Diff.	52°	Diff.	53°	Diff.	54°	Diff.	

	55°	Diff.	56°	Diff.	57°	Diff.	58°	Diff.	59°	Diff.	
0	8191520	1669	8390376	1686	8586706	1694	8780481	1641	8971673	1496	60
1	8193189	1667	8392009	1686	8588290	1683	8782022	1640	8973171	1497	59
2	8194856	1667	8393632	1684	8589873	1582	8783562	1540	8974698	1496	58
3	8196523	1666	8395252	1625	8591455	1582	8785109	1539	8976214	1496	57
4	8198189	1665	8396877	1623	8593037	1581	8786641	1538	8977760	1495	56
5	8199854	1665	8398500	1623	8594618	1581	8788179	1538	8979155	1494	55
6	8201519	1664	8300123	1622	8596199	1579	8789717	1537	8980649	1494	54
7	8203183	1663	8301745	1621	8597778	1579	8791254	1536	8982143	1493	53
8	8204846	1663	8303366	1621	8599357	1579	8792790	1535	8983635	1493	52
9	8206509	1661	8304987	1620	8600936	1577	8794325	1535	8985127	1493	51
10	8208170	1662	8306607	1619	8602513	1577	8795860	1534	8986619	1490	50
11	8209832	1660	8308226	1618	8604090	1576	8797394	1533	8988109	1490	49
12	8211492	1660	8309845	1618	8605666	1575	8798927	1532	8989599	1489	48
13	8213150	1659	8311463	1617	8607241	1575	8800460	1532	8991088	1488	47
14	8214811	1658	8313080	1616	8608816	1574	8801991	1531	8992570	1488	46
15	8216469	1658	8314696	1616	8610390	1573	8803522	1531	8994054	1487	45
16	8218127	1657	8316312	1615	8611963	1573	8805053	1529	8995551	1486	44
17	8219784	1656	8317927	1614	8613536	1572	8806584	1529	8997037	1486	43
18	8221440	1656	8319541	1614	8615108	1571	8808111	1528	8998523	1484	42
19	8223096	1655	8321155	1613	8616679	1570	8809630	1528	8999907	1484	41
20	8224751	1654	8322768	1612	8618249	1569	8811107	1526	9001401	1484	40
21	8226405	1654	8324380	1611	8619819	1568	8812623	1526	9002895	1483	39
22	8228059	1653	8325991	1611	8621388	1568	8814142	1526	9004457	1483	38
23	8229712	1652	8327603	1610	8622956	1567	8815658	1524	9005980	1481	37
24	8231364	1651	8329212	1610	8624524	1567	8817173	1523	9007430	1481	36
25	8233015	1651	8330822	1608	8626091	1566	8818683	1523	9008901	1479	35
26	8234666	1650	8332430	1608	8627657	1565	8820196	1522	9010380	1479	34
27	8236316	1649	8334038	1608	8629222	1565	8821709	1521	9011859	1478	33
28	8237965	1649	8335646	1606	8630787	1564	8823230	1521	9013337	1478	32
29	8239614	1648	8337252	1606	8632351	1563	8824742	1521	9014815	1477	31
30	8241262	1647	8338858	1605	8633914	1563	8826254	1519	9016292	1476	30
31	8242909	1647	8340463	1605	8635477	1562	8827761	1519	9017768	1475	29
32	8244556	1646	8342068	1604	8637039	1561	8829269	1518	9019243	1474	28
33	8246202	1646	8343672	1603	8638600	1561	8830777	1517	9020717	1474	27
34	8247847	1644	8345275	1602	8640161	1560	8832284	1516	9022191	1473	26
35	8249491	1644	8346878	1602	8641720	1560	8833792	1516	9023664	1473	25
36	8251135	1643	8348479	1601	8643279	1559	8835300	1515	9025137	1471	24
37	8252778	1642	8350080	1600	8644838	1557	8836808	1515	9026608	1471	23
38	8254420	1642	8351680	1599	8646396	1557	8838316	1513	9028079	1470	22
39	8256062	1641	8353279	1598	8647953	1556	8839824	1513	9029549	1470	21
40	8257703	1640	8354878	1598	8649508	1556	8841332	1513	9031019	1469	20
41	8259343	1640	8356476	1598	8651064	1554	8842840	1511	9032488	1468	19
42	8260983	1639	8358074	1596	8652618	1554	8844347	1511	9033956	1467	18
43	8262622	1638	8359670	1596	8654172	1553	8845854	1510	9035423	1466	17
44	8264260	1637	8361265	1596	8655726	1552	8847360	1510	9036889	1465	16
45	8265897	1637	8362859	1594	8657278	1551	8848867	1508	9038355	1465	15
46	8267534	1636	8364455	1594	8658830	1551	8850373	1508	9039820	1464	14
47	8269170	1636	8366050	1593	8660381	1551	8851879	1508	9041284	1464	13
48	8270806	1634	8367643	1593	8661933	1549	8853384	1506	9042748	1463	12
49	8272440	1634	8369236	1591	8663481	1549	8854889	1505	9044211	1462	11
50	8274074	1634	8370827	1591	8665030	1549	8856394	1504	9045673	1461	10
51	8275707	1632	8372418	1591	8666579	1547	8857899	1504	9047134	1461	9
52	8277340	1633	8374009	1589	8668126	1547	8859404	1503	9048595	1460	8
53	8278972	1631	8375598	1589	8669673	1546	8860909	1503	9050055	1459	7
54	8280603	1631	8377187	1588	8671219	1546	8862414	1503	9051514	1459	6
55	8282234	1630	8378776	1588	8672765	1544	8863919	1501	9052973	1457	5
56	8283864	1629	8380363	1587	8674309	1544	8865424	1501	9054430	1457	4
57	8285493	1628	8381950	1586	8675853	1544	8866929	1500	9055887	1456	3
58	8287121	1628	8383536	1585	8677397	1543	8868434	1499	9057344	1455	2
59	8288749	1627	8385121	1585	8678939	1542	8869939	1499	9058800	1455	1
60	8290376	1626	8386706	1584	8680481	1541	8871443	1498	9060254	1454	0
	34°	Diff.	35°	Diff.	36°	Diff.	37°	Diff.	38°	Diff.	

	60°	Dif.	61°	Dif.	62°	Dif.	63°	Dif.	64°	Dif.	
0	8000254	1454	8746197	1410	8829476	1365	8910065	1320	8987040	1275	60
1	8061708	1453	8747617	1409	8830841	1365	8911385	1320	8988215	1274	59
2	8063161	1453	8749016	1409	8832206	1363	8912705	1319	8989489	1274	58
3	8064614	1452	8750425	1407	8833569	1364	8914024	1318	8990763	1272	57
4	8066068	1451	8751832	1407	8834933	1362	8915342	1317	8992035	1272	56
5	8067517	1450	8753239	1406	8836293	1361	8916659	1316	8993307	1271	55
6	8068967	1450	8754645	1406	8837656	1361	8917975	1316	8994578	1270	54
7	8070417	1449	8756051	1404	8839017	1360	8919291	1315	8995848	1269	53
8	8071866	1448	8757455	1404	8840377	1359	8920606	1314	8997117	1269	52
9	8073314	1448	8758859	1404	8841736	1359	8921920	1314	8998386	1268	51
10	8074762	1447	8760263	1402	8843095	1358	8923234	1312	8999654	1267	50
11	8076209	1446	8761665	1402	8844453	1357	8924546	1312	9000921	1267	49
12	8077656	1445	8763067	1401	8845810	1356	8925858	1311	9002188	1265	48
13	8079100	1444	8764468	1400	8847166	1355	8927169	1311	9003453	1265	47
14	8080544	1444	8765868	1400	8848522	1354	8928480	1309	9004718	1264	46
15	8081988	1443	8767268	1398	8849876	1354	8929789	1309	9005982	1264	45
16	8083431	1443	8768666	1398	8851230	1354	8931096	1308	9007246	1262	44
17	8084874	1441	8770064	1398	8852584	1352	8932406	1308	9008509	1262	43
18	8086315	1441	8771462	1398	8853936	1352	8933714	1307	9009770	1261	42
19	8087756	1440	8772858	1396	8855288	1351	8935021	1306	9011031	1261	41
20	8089196	1440	8774254	1395	8856639	1350	8936326	1306	9012292	1259	40
21	8090636	1438	8775649	1394	8857989	1350	8937632	1304	9013551	1259	39
22	8092074	1438	8777043	1394	8859339	1349	8938936	1304	9014810	1258	38
23	8093512	1437	8778437	1393	8860688	1348	8940240	1302	9016068	1257	37
24	8094949	1437	8779830	1392	8862036	1347	8941542	1302	9017325	1257	36
25	8096386	1435	8781222	1391	8863383	1347	8942844	1302	9018582	1256	35
26	8097821	1435	8782613	1391	8864730	1346	8944146	1300	9019838	1254	34
27	8099256	1435	8784004	1390	8866075	1345	8945446	1300	9021093	1253	33
28	8100691	1433	8785394	1389	8867420	1345	8946746	1299	9022347	1253	32
29	8102124	1433	8786783	1388	8868765	1343	8948045	1299	9023600	1253	31
30	8103557	1432	8788171	1388	8870108	1343	8949344	1297	9024853	1252	30
31	8104989	1431	8789559	1387	8871451	1342	8950641	1297	9026105	1251	29
32	8106420	1431	8790946	1386	8872793	1341	8951938	1296	9027356	1250	28
33	8107851	1430	8792332	1385	8874134	1341	8953234	1295	9028606	1250	27
34	8109281	1429	8793717	1385	8875475	1340	8954529	1295	9029856	1249	26
35	8110710	1428	8795102	1384	8876815	1339	8955824	1294	9031105	1248	25
36	8112138	1428	8796486	1383	8878154	1338	8957118	1293	9032353	1247	24
37	8113566	1427	8797869	1382	8879492	1338	8958411	1292	9033600	1247	23
38	8114993	1426	8799251	1382	8880830	1336	8959703	1291	9034847	1246	22
39	8116419	1425	8800633	1381	8882166	1337	8961004	1291	9036093	1245	21
40	8117844	1425	8802014	1380	8883503	1335	8962295	1290	9037338	1244	20
41	8119269	1424	8803394	1380	8884838	1334	8963585	1289	9038582	1243	19
42	8120693	1423	8804774	1378	8886172	1334	8964864	1289	9039825	1243	18
43	8122116	1422	8806153	1378	8887506	1333	8966153	1287	9041068	1242	17
44	8123538	1422	8807532	1377	8888839	1332	8967440	1287	9042310	1241	16
45	8124960	1421	8808907	1377	8890171	1332	8968727	1287	9043551	1241	15
46	8126381	1420	8810284	1376	8891503	1331	8970014	1285	9044792	1240	14
47	8127801	1420	8811660	1375	8892834	1330	8971299	1285	9046032	1239	13
48	8129221	1419	8813035	1374	8894164	1329	8972584	1284	9047271	1238	12
49	8130640	1418	8814409	1373	8895493	1329	8973868	1283	9048509	1237	11
50	8132058	1417	8815782	1373	8896822	1327	8975151	1282	9049746	1237	10
51	8133475	1416	8817155	1372	8898149	1327	8976433	1282	9050983	1236	9
52	8134891	1416	8818527	1371	8899476	1327	8977716	1281	9052219	1235	8
53	8136307	1415	8819898	1371	8900803	1325	8978996	1280	9053454	1234	7
54	8137722	1415	8821269	1369	8902128	1325	8980276	1279	9054688	1234	6
55	8139137	1413	8822638	1369	8903453	1324	8981555	1279	9055922	1233	5
56	8140550	1413	8824007	1369	8904777	1323	8982834	1278	9057155	1232	4
57	8141963	1412	8825376	1367	8906100	1323	8984112	1277	9058388	1232	3
58	8143375	1411	8826743	1367	8907423	1321	8985389	1276	9059621	1230	2
59	8144786	1411	8828110	1366	8908744	1321	8986665	1275	9060854	1230	1
60	8146197	1410	8829476	1365	8910065	1320	8987940	1275	9062086	1229	0
	59°	Dif.	58°	Dif.	57°	Dif.	56°	Dif.	55°	Dif.	

	66°	Diff.	66°	Diff.	67°	Diff.	68°	Diff.	69°	Diff.	
0	9063078	1229	9135455	1182	9203049	1136	9271839	1089	9338804	1042	60
1	9064307	1228	9136637	1189	9204185	1135	9272928	1088	9339846	1042	59
2	9065535	1227	9137819	1182	9205320	1135	9274016	1088	9340888	1040	58
3	9066762	1227	9139001	1180	9206455	1134	9275104	1087	9341929	1040	57
4	9067989	1226	9140171	1180	9207589	1133	9276191	1086	9342968	1039	56
5	9069216	1225	9141361	1179	9210722	1132	9277277	1086	9344007	1038	55
6	9070440	1225	9142540	1178	9211854	1132	9278363	1084	9345045	1037	54
7	9071665	1223	9143718	1177	9212986	1130	9279447	1084	9346083	1037	53
8	9072888	1223	9144895	1177	9214116	1130	9280531	1083	9347119	1035	52
9	9074111	1222	9146072	1175	9215246	1129	9281614	1082	9348154	1035	51
10	9075333	1221	9147247	1175	9216375	1129	9282696	1082	9349189	1034	50
11	9076554	1221	9148422	1175	9217504	1128	9283778	1080	9350223	1034	49
12	9077775	1220	9149597	1173	9218632	1128	9284858	1080	9351257	1032	48
13	9078993	1219	9150770	1173	9219758	1126	9285938	1079	9352289	1032	47
14	9080214	1218	9151943	1172	9220884	1126	9287017	1079	9353321	1031	46
15	9081432	1217	9153115	1171	9222010	1124	9288096	1077	9354352	1030	45
16	9082649	1217	9154286	1170	9223134	1124	9289173	1077	9355382	1030	44
17	9083866	1216	9155456	1170	9224258	1123	9290250	1076	9356412	1028	43
18	9085082	1215	9156626	1169	9225381	1122	9291326	1075	9357440	1028	42
19	9086297	1214	9157795	1168	9226503	1121	9292401	1074	9358468	1027	41
20	9087511	1214	9158963	1167	9227624	1121	9293475	1074	9359495	1026	40
21	9088725	1213	9160130	1167	9228745	1120	9294549	1073	9360521	1026	39
22	9089938	1212	9161297	1165	9229865	1119	9295622	1072	9361547	1024	38
23	9091150	1211	9162462	1165	9230984	1118	9296694	1071	9362571	1024	37
24	9092361	1211	9163627	1164	9232102	1118	9297765	1070	9363595	1023	36
25	9093572	1209	9164791	1164	9233220	1116	9298835	1070	9364618	1023	35
26	9094781	1209	9165955	1163	9234336	1116	9299905	1069	9365641	1021	34
27	9095989	1209	9167118	1161	9235452	1115	9300974	1068	9366662	1021	33
28	9097197	1207	9168279	1161	9236567	1115	9302042	1067	9367683	1020	32
29	9098404	1207	9169440	1161	9237682	1113	9303109	1067	9368703	1019	31
30	9099613	1206	9170601	1159	9238795	1113	9304176	1065	9369722	1018	30
31	9100819	1205	9171760	1159	9239908	1112	9305241	1065	9370740	1018	29
32	9102024	1204	9172919	1158	9241020	1112	9306306	1064	9371758	1016	28
33	9103228	1204	9174077	1157	9242131	1111	9307370	1064	9372774	1016	27
34	9104432	1203	9175234	1157	9243242	1109	9308434	1062	9373789	1016	26
35	9105635	1202	9176391	1155	9244351	1109	9309496	1062	9374803	1014	25
36	9106837	1201	9177546	1155	9245460	1108	9310558	1061	9375819	1013	24
37	9108038	1200	9178701	1154	9246568	1108	9311619	1060	9376833	1013	23
38	9109238	1200	9179855	1154	9247676	1106	9312679	1060	9377846	1012	22
39	9110438	1199	9181009	1152	9248782	1106	9313739	1058	9378858	1011	21
40	9111637	1198	9182161	1152	9249888	1105	9314797	1058	9379869	1011	20
41	9112835	1198	9183313	1151	9250993	1104	9315855	1057	9380879	1010	19
42	9114033	1196	9184464	1150	9252097	1104	9316912	1057	9381888	1009	18
43	9115229	1196	9185614	1149	9253201	1102	9317969	1055	9382896	1008	17
44	9116425	1195	9186763	1149	9254303	1102	9319024	1055	9383903	1007	16
45	9117620	1195	9187912	1148	9255405	1101	9320079	1054	9384909	1007	15
46	9118815	1193	9189060	1147	9256506	1100	9321133	1053	9385914	1005	14
47	9120008	1193	9190207	1146	9257606	1100	9322186	1052	9386919	1005	13
48	9121201	1192	9191353	1146	9258706	1099	9323238	1052	9387923	1004	12
49	9122393	1191	9192499	1145	9259805	1097	9324290	1050	9388926	1004	11
50	9123584	1191	9193644	1144	9260902	1098	9325340	1050	9389928	1002	10
51	9124775	1190	9194788	1143	9262000	1096	9326389	1049	9390929	1002	9
52	9125965	1189	9195931	1142	9263096	1096	9327439	1049	9391928	1000	8
53	9127154	1188	9197073	1142	9264192	1094	9328488	1047	9392926	1001	7
54	9128343	1187	9198215	1141	9265286	1094	9329535	1047	9393923	999	6
55	9129532	1187	9199356	1140	9266380	1094	9330582	1046	9394919	998	5
56	9130719	1186	9200496	1139	9267474	1092	9331628	1045	9395914	998	4
57	9131907	1185	9201633	1139	9268566	1092	9332673	1045	9396908	997	3
58	9133093	1184	9202771	1138	9269658	1090	9333718	1043	9397901	996	2
59	9134271	1184	9203912	1137	9270748	1091	9334761	1043	9398893	995	1
60	9135455	1182	9205049	1136	9271839	1089	9335804	1042	9399884	995	0
	24°	Diff.	23°	Diff.	22°	Diff.	21°	Diff.	20°	Diff.	

	70°	Dif.	71°	Dif.	72°	Dif.	73°	Dif.	74°	Dif.	
0	9386926	985	9455186	946	9510565	899	9563048	850	9619617	801	60
1	9387921	983	9456139	946	9511464	897	9563958	849	9613418	800	59
2	9388914	983	9457078	945	9512361	897	9564747	848	9614219	800	58
3	9389907	982	9458023	945	9513258	896	9565595	848	9615019	799	57
4	9400899	982	9458968	943	9514154	896	9566443	847	9615818	798	56
5	9401891	980	9459911	943	9515050	894	9567290	846	9616616	797	55
6	9402881	980	9460854	941	9515944	894	9568136	845	9617413	797	54
7	9403871	980	9461795	941	9516838	893	9568981	844	9618210	795	53
8	9404860	988	9462736	941	9517731	892	9569825	844	9619005	795	52
9	9405848	987	9463677	939	9518623	891	9570669	843	9619800	794	51
10	9406835	987	9464616	939	9519514	890	9571512	842	9620594	793	50
11	9407822	986	9465555	938	9520404	890	9572354	841	9621387	793	49
12	9408808	985	9466493	937	9521294	889	9573195	840	9622180	792	48
13	9409793	984	9467430	936	9522183	888	9574035	840	9622972	790	47
14	9410777	983	9468366	935	9523071	17	9574875	839	9623762	790	46
15	9411760	983	9469301	935	9523958	186	9575714	838	9624552	790	45
16	9412743	981	9470236	934	9524844	886	9576552	837	9625342	788	44
17	9413724	981	9471170	933	9525730	885	9577389	836	9626130	787	43
18	9414705	981	9472103	932	9526615	884	9578225	835	9626917	787	42
19	9415686	979	9473035	931	9527499	883	9579060	835	9627704	785	41
20	9416665	979	9473966	931	9528382	882	9579895	834	9628490	785	40
21	9417644	977	9474897	930	9529264	882	9580729	833	9629275	785	39
22	9418621	977	9475827	929	9530146	881	9581562	832	9630060	783	38
23	9419598	977	9476756	928	9531027	880	9582394	832	9630843	783	37
24	9420575	975	9477684	928	9531907	879	9583225	830	9631626	782	36
25	9421550	975	9478612	926	9532786	878	9584056	830	9632408	781	35
26	9422525	973	9479538	926	9533664	878	9584886	829	9633189	780	34
27	9423499	973	9480464	925	9534542	876	9585715	828	9633969	779	33
28	9424471	973	9481389	924	9535418	876	9586543	828	9634749	779	32
29	9425444	971	9482313	924	9536294	876	9587371	826	9635527	778	31
30	9426415	971	9483237	922	9537170	874	9588197	826	9636305	776	30
31	9427386	969	9484159	922	9538044	873	9589023	825	9637081	777	29
32	9428355	969	9485081	921	9538917	873	9589848	824	9637858	775	28
33	9429324	969	9486002	920	9539790	872	9590672	824	9638633	774	27
34	9430293	967	9486922	920	9540662	871	9591496	823	9639407	774	26
35	9431260	967	9487843	918	9541533	870	9592318	823	9640181	773	25
36	9432227	965	9488760	918	9542403	870	9593140	821	9640954	773	24
37	9433192	965	9489678	917	9543273	869	9593961	820	9641726	771	23
38	9434157	965	9490595	916	9544141	868	9594781	819	9642497	771	22
39	9435122	963	9491511	915	9545009	867	9595600	818	9643268	769	21
40	9436085	963	9492426	915	9545876	867	9596418	818	9644037	769	20
41	9437048	962	9493341	914	9546743	865	9597236	817	9644806	768	19
42	9438010	961	9494255	913	9547608	865	9598053	816	9645574	767	18
43	9438971	960	9495169	913	9548473	863	9598869	815	9646341	767	17
44	9439931	959	9496080	911	9549336	863	9599684	815	9647108	765	16
45	9440890	959	9496991	911	9550199	863	9600499	813	9647873	765	15
46	9441849	958	9497903	910	9551062	861	9601312	813	9648638	764	14
47	9442807	957	9498812	908	9551923	861	9602125	812	9649402	763	13
48	9443764	956	9499721	908	9552784	859	9602937	811	9650165	763	12
49	9444720	955	9500629	907	9553643	859	9603748	810	9650927	762	11
50	9445675	955	9501536	907	9554502	859	9604558	810	9651689	760	10
51	9446630	954	9502443	905	9555361	857	9605368	809	9652449	760	9
52	9447584	953	9503348	905	9556218	856	9606177	807	9653209	759	8
53	9448537	953	9504253	904	9557074	856	9606984	808	9653968	758	7
54	9449489	952	9505167	904	9557930	855	9607792	806	9654726	758	6
55	9450441	950	9506081	903	9558785	854	9608598	806	9655484	756	5
56	9451391	950	9506993	902	9559639	853	9609403	805	9656240	756	4
57	9452341	949	9507905	901	9560492	853	9610208	804	9656996	755	3
58	9453290	948	9508816	900	9561345	852	9611012	803	9657751	754	2
59	9454238	948	9509726	899	9562197	851	9611815	802	9658505	753	1
60	9455186	946	9510635	898	9563048	850	9612617	801	9659258	753	0
	19°	Dif.	18°	Dif.	17°	Dif.	16°	Dif.	15°	Dif.	

	76°	Diff.	76°	Diff.	77°	Diff.	78°	Diff.	79°	Diff.	
0	9869258	753	9702957	704	9743701	654	9781476	604	9816272	554	80
1	9869011	751	9703661	702	9744355	653	9782080	604	9816826	554	89
2	9868763	751	9704363	702	9745008	653	9782684	603	9817380	553	59
3	9868513	750	9705063	701	9745660	651	9783287	603	9817933	552	57
4	9868263	749	9705766	700	9746311	651	9783889	601	9818485	552	50
5	9868012	749	9706466	699	9746962	650	9784490	600	9819037	550	56
6	9867761	747	9707165	698	9747612	649	9785090	599	9819587	550	54
7	9867508	747	9707863	698	9748261	648	9785689	599	9820137	549	53
8	9867255	746	9708561	697	9748909	647	9786288	598	9820686	548	52
9	9866901	745	9709259	695	9749550	647	9786886	597	9821234	547	51
10	9866648	744	9709953	696	9750203	646	9787483	596	9821781	546	80
11	9866390	744	9710649	694	9750848	645	9788079	595	9822327	546	49
12	9866134	743	9711343	693	9751494	644	9788674	594	9822873	544	48
13	9865877	741	9712036	693	9752139	643	9789268	594	9823417	544	47
14	9865618	741	9712729	692	9752781	642	9789862	593	9823961	543	40
15	9865359	741	9713421	691	9753423	642	9790455	592	9824504	543	45
16	9865100	739	9714111	690	9754065	641	9791047	591	9825046	541	44
17	9864839	739	9714802	689	9754706	639	9791638	590	9825587	541	43
18	9864578	737	9715491	689	9755345	640	9792228	590	9826128	540	42
19	9864315	737	9716180	687	9755983	638	9792818	589	9826668	538	41
20	9864052	736	9716867	687	9756623	637	9793406	588	9827206	538	40
21	9863789	736	9717554	686	9757260	637	9793994	587	9827744	538	39
22	9863524	734	9718240	686	9757897	636	9794581	586	9828282	536	38
23	9863258	734	9718926	684	9758533	635	9795167	585	9828818	535	37
24	9862992	733	9719610	684	9759168	634	9795752	585	9829353	535	36
25	9862725	732	9720294	682	9759802	633	9796337	584	9829888	534	35
26	9862457	731	9720976	682	9760435	633	9796921	583	9830422	533	34
27	9862188	730	9721658	681	9761068	631	9797504	582	9830955	532	33
28	9861918	730	9722339	681	9761699	631	9798086	581	9831487	532	32
29	9861648	729	9723020	679	9762330	630	9798667	580	9832019	530	31
30	9861376	728	9723699	679	9762960	629	9799247	580	9832549	530	30
31	9861104	727	9724378	678	9763589	629	9799827	578	9833079	529	29
32	9860831	727	9725056	677	9764218	627	9800405	578	9833608	528	28
33	9860558	726	9725733	676	9764845	627	9800983	577	9834136	527	27
34	9860283	725	9726409	675	9765473	626	9801560	576	9834663	526	26
35	9859908	724	9727084	675	9766098	625	9802136	575	9835189	526	25
36	9859632	723	9727759	673	9766723	624	9802712	574	9835715	524	24
37	9859355	723	9728432	673	9767347	623	9803286	574	9836239	524	23
38	9859077	721	9729105	672	9767970	623	9803860	573	9836763	523	22
39	9858798	721	9729777	672	9768593	622	9804433	572	9837286	522	21
40	9858519	719	9730449	670	9769215	621	9805005	571	9837808	522	20
41	9858238	719	9731119	670	9769836	620	9805576	571	9838330	520	19
42	9857957	718	9731789	669	9770456	619	9806147	569	9838850	520	18
43	9857675	718	9732458	667	9771075	618	9806716	569	9839370	519	17
44	9857393	716	9733125	668	9771693	618	9807285	568	9839889	518	10
45	9857109	716	9733793	666	9772311	617	9807853	567	9840407	517	15
46	9856825	715	9734459	665	9772928	616	9808420	566	9840924	517	14
47	9856540	713	9735124	665	9773544	615	9808986	565	9841441	515	13
48	9856253	714	9735789	664	9774159	614	9809552	564	9841956	515	12
49	9855967	712	9736453	663	9774773	614	9810116	564	9842471	514	11
50	9855679	712	9737116	662	9775387	612	9810680	563	9842986	513	10
51	9855391	710	9737778	661	9775999	612	9811243	562	9843498	512	9
52	9855101	710	9738439	661	9776611	611	9811805	561	9844010	511	8
53	9854811	709	9739100	660	9777222	610	9812366	561	9844521	511	7
54	9854520	708	9739760	659	9777833	610	9812927	559	9845032	510	6
55	9854228	706	9740419	658	9778443	608	9813486	559	9845542	508	5
56	9700136	706	9741077	657	9779050	608	9814045	558	9846050	508	4
57	9700842	705	9741734	656	9779656	607	9814603	557	9846558	508	3
58	9701548	705	9742390	656	9780265	606	9815160	556	9847066	506	2
59	9702253	704	9743046	655	9780871	605	9815716	555	9847572	506	1
60	9702957	704	9743701	654	9781476	604	9816272	554	9848078	504	0
	14°	Diff.	13°	Diff.	12°	Diff.	11°	Diff.	10°	Diff.	

	80°	Diff.	81°	Diff.	82°	Diff.	83°	Diff.	84°	Diff.	
0	9848178	504	9870883	456	9902681	404	9934482	354	9966219	304	60
1	9848382	504	9871338	454	9903065	404	9935816	353	9967523	302	59
2	9848586	503	9871792	453	9903489	402	9937169	352	9968826	302	58
3	9848789	502	9872245	452	9903891	402	9938521	352	9970127	301	57
4	9848991	502	9872697	451	9904293	401	9939873	351	9971428	301	56
5	9849193	500	9873148	451	9904694	401	9941224	349	9972729	299	55
6	9849395	500	9873599	449	9905095	399	9942573	349	9974029	299	54
7	9849598	499	9874048	449	9905494	399	9943922	349	9975327	298	53
8	9849799	498	9874497	448	9905893	397	9945271	347	9976625	296	52
9	9849999	497	9874945	447	9906290	397	9946618	347	9977921	296	51
10	9850198	496	9875392	446	9906687	396	9947965	345	9979217	296	50
11	9850397	496	9875838	446	9907083	395	9949310	345	9980513	294	49
12	9850597	495	9876284	444	9907478	395	9950655	344	9981807	294	48
13	9850794	494	9876728	444	9907873	393	9952000	343	9983101	292	47
14	9850990	493	9877172	443	9908266	393	9953342	343	9984393	292	46
15	9851185	492	9877615	442	9908659	392	9954683	341	9985685	291	45
16	9851380	491	9878057	441	9909051	391	9956026	341	9986976	290	44
17	9851574	491	9878498	441	9909442	390	9957367	339	9988266	290	43
18	9851767	489	9878939	439	9909833	389	9958706	339	9989556	288	42
19	9851959	489	9879378	439	9910221	389	9960045	337	9990844	288	41
20	9852150	488	9879817	438	9910610	387	9961384	337	9992132	287	40
21	9852341	487	9880255	437	9911000	387	9962721	336	9993419	286	39
22	9852530	487	9880692	436	9911384	386	9964057	336	9994705	285	38
23	9852719	485	9881128	436	9911770	385	9965393	335	9995990	284	37
24	9852906	485	9881564	434	9912155	385	9966728	334	9997274	283	36
25	9853093	484	9881998	434	9912540	383	9968062	333	9998557	283	35
26	9853279	483	9882432	433	9912923	383	9969395	332	9999840	282	34
27	9853464	482	9882865	432	9913306	382	9970727	331	9995122	281	33
28	9853648	481	9883297	431	9913688	381	9972058	331	9996403	280	32
29	9853831	481	9883728	431	9914069	380	9973389	330	9997683	279	31
30	9854013	480	9884159	429	9914449	379	9974719	328	9998962	278	30
31	9854195	479	9884588	429	9914828	378	9976047	328	9995451	277	29
32	9854376	478	9885017	428	9915206	378	9977375	326	9996735	275	28
33	9854556	477	9885445	427	9915584	377	9978703	326	9998017	275	27
34	9854735	476	9885872	426	9915961	376	9980029	325	9999298	274	26
35	9854913	476	9886298	425	9916337	375	9981355	324	9995534	273	25
36	9855090	474	9886723	425	9916712	374	9982679	324	9996809	272	24
37	9855266	474	9887148	424	9917086	373	9983999	323	9998083	272	23
38	9855441	473	9887572	422	9917459	373	9985320	322	9999356	272	22
39	9855615	472	9887994	422	9917832	372	9986640	321	9995643	271	21
40	9855788	472	9888416	422	9918204	370	9987969	321	9996908	270	20
41	9855960	470	9888838	420	9918574	370	9989290	320	9998172	269	19
42	9856131	470	9889259	419	9918944	370	9990610	318	9999437	268	18
43	9856302	469	9889677	419	9919314	368	9991928	318	9995751	268	17
44	9856472	468	9890096	418	9919683	367	9993246	317	9997065	266	16
45	9856641	467	9890514	417	9920050	367	9994563	317	9998379	266	15
46	9856810	466	9890931	416	9920416	366	9995880	315	9999693	265	14
47	9856979	466	9891347	415	9920782	365	9997195	315	9995008	264	13
48	9857147	464	9891762	415	9921147	364	9998510	313	9996322	263	12
49	9857315	464	9892177	413	9921511	363	9999823	313	9997637	263	11
50	9857482	463	9892590	413	9921874	363	9999136	312	9998950	261	10
51	9857649	462	9893003	412	9922237	362	9998448	312	9995263	261	9
52	9857816	462	9893415	411	9922599	360	9999760	310	9996576	260	8
53	9857982	460	9893826	411	9922963	360	9999070	309	9997889	259	7
54	9858148	460	9894237	409	9923319	360	9998379	309	9999194	258	6
55	9858313	459	9894646	409	9923679	358	9998688	308	9995509	257	5
56	9858478	457	9895055	407	9924037	357	9998996	307	9996822	257	4
57	9858642	456	9895463	407	9924394	357	9999303	306	9998135	256	3
58	9858806	456	9895871	406	9924751	356	9999610	305	9999448	255	2
59	9858969	455	9896279	406	9925107	355	9999914	305	9995763	254	1
60	9859133	455	9896688	404	9925462	354	9995219	304	9997077	253	0
	80°	Diff.	81°	Diff.	82°	Diff.	83°	Diff.	84°	Diff.	

'	85°	Diff.	86°	Diff.	87°	Diff.	88°	Diff.	89°	Diff.	'
0	9961947	253	9975641	202	9989295	152	9993006	101	9996477	50	60
1	9962200	252	9975893	202	9989547	151	9993258	101	9996729	50	60
2	9962452	252	9976145	200	9989798	150	9993510	99	9996981	48	58
3	9962704	250	9976397	200	9989748	150	9993762	99	9997233	48	57
4	9962956	250	9976649	200	9989698	148	9994014	97	9997485	47	56
5	9963208	249	9976901	199	9989648	148	9994266	97	9997737	46	55
6	9963460	248	9977153	197	9989598	146	9994518	96	9997989	46	54
7	9963712	247	9977405	197	9989548	146	9994770	95	9998241	44	53
8	9963964	247	9977657	196	9989498	145	9995022	95	9998493	44	52
9	9964216	245	9977909	194	9989448	144	9995274	93	9998745	42	51
10	9964468	245	9978161	194	9989398	144	9995526	93	9998997	42	50
11	9964720	244	9978413	194	9989348	142	9995778	92	9999249	41	49
12	9964972	243	9978665	192	9989298	142	9996030	91	9999501	40	48
13	9965224	242	9978917	192	9989248	141	9996282	90	9999753	40	47
14	9965476	241	9979169	190	9989198	140	9996534	89	9999005	39	46
15	9965728	240	9979421	190	9989148	139	9996786	88	9999257	38	45
16	9965980	240	9979673	189	9989098	138	9997038	88	9999509	37	44
17	9966232	239	9979925	188	9989048	138	9997290	87	9999761	36	43
18	9966484	238	9980177	187	9988998	136	9997542	85	9999013	35	42
19	9966736	237	9980429	187	9988948	136	9997794	86	9999265	34	41
20	9966988	236	9980681	186	9988898	135	9998046	84	9999517	34	40
21	9967240	236	9980933	184	9988848	134	9998298	83	9999769	32	39
22	9967492	234	9981185	184	9988798	133	9998550	83	9999021	32	38
23	9967744	234	9981437	183	9988748	133	9998802	81	9999273	31	37
24	9967996	233	9981689	183	9988698	131	9999054	81	9999525	30	36
25	9968248	232	9981941	181	9988648	131	9999306	80	9999777	29	35
26	9968500	231	9982193	180	9988598	130	9999558	79	9999029	28	34
27	9968752	230	9982445	180	9988548	129	9999810	78	9999281	28	33
28	9969004	230	9982697	179	9988498	128	9999562	78	9999533	26	32
29	9969256	228	9982949	178	9988448	127	9999814	76	9999785	26	31
30	9969508	228	9983201	177	9988398	127	9999566	76	9999037	25	30
31	9969760	227	9983453	176	9988348	125	9999818	75	9999289	24	29
32	9970012	226	9983705	176	9988298	125	9999570	74	9999541	24	28
33	9970264	226	9983957	175	9988248	124	9999822	73	9999793	22	27
34	9970516	224	9984209	173	9988198	123	9999574	72	9999045	22	26
35	9970768	224	9984461	173	9988148	122	9999826	72	9999297	20	25
36	9971020	222	9984713	172	9988098	122	9999578	71	9999549	20	24
37	9971272	222	9984965	172	9988048	120	9999830	70	9999801	19	23
38	9971524	221	9985217	170	9987998	120	9999582	68	9999053	18	22
39	9971776	220	9985469	170	9987948	119	9999834	68	9999305	18	21
40	9972028	220	9985721	168	9987898	118	9999586	68	9999557	17	20
41	9972280	218	9985973	168	9987848	117	9999838	66	9999809	16	19
42	9972532	218	9986225	167	9987798	116	9999590	66	9999061	15	18
43	9972784	217	9986477	166	9987748	116	9999842	64	9999313	14	17
44	9973036	216	9986729	166	9987698	114	9999594	64	9999565	13	16
45	9973288	215	9986981	164	9987648	114	9999846	63	9999817	12	15
46	9973540	214	9987233	164	9987598	113	9999598	62	9999069	11	14
47	9973792	214	9987485	163	9987548	112	9999850	62	9999321	11	13
48	9974044	212	9987737	162	9987498	111	9999602	60	9999573	10	12
49	9974296	212	9987989	161	9987448	111	9999854	60	9999825	9	11
50	9974548	211	9988241	160	9987398	109	9999606	59	9999077	8	10
51	9974800	210	9988493	159	9987348	109	9999858	58	9999329	7	9
52	9975052	209	9988745	159	9987298	108	9999610	57	9999581	6	8
53	9975304	209	9988997	158	9987248	107	9999862	56	9999833	6	7
54	9975556	207	9989249	157	9987198	106	9999614	56	9999085	4	6
55	9975808	207	9989501	156	9987148	105	9999866	54	9999337	4	5
56	9976060	206	9989753	155	9987098	105	9999618	54	9999589	3	4
57	9976312	205	9989505	154	9987048	104	9999870	53	9999841	2	3
58	9976564	204	9989757	154	9986998	102	9999622	52	9999093	2	2
59	9976816	204	9989509	152	9986948	102	9999874	51	1-000000	0	1
60	9977068	202	9989761	152	9986898	101	9999626	50	1-000000	0	0
'	4°	Diff.	5°	Diff.	6°	Diff.	7°	Diff.	8°	Diff.	'

A TABLE OF THE ANGLES

Which every Point and Quarter Point of the Compass makes with the Meridian.

NORTH.		Points.	"	'	"	Points.	SOUTH.	
		0 1/4	2	48	45	0 1/4		
		0 1/2	5	37	30	0 1/2		
		0 3/4	8	26	15	0 3/4		
N. by E.....	...N. by W....	1	11	15	0	1	...S. by E....	...S. by W....
		1 1/4	14	3	45	1 1/4		
		1 1/2	16	52	30	1 1/2		
		1 3/4	19	41	15	1 3/4		
N. N. E.....	...N N. W....	2	22	30	0	2	...S. S. E....	...S. S. W....
		2 1/4	25	18	45	2 1/4		
		2 1/2	28	7	30	2 1/2		
		2 3/4	30	56	15	2 3/4		
N. E. by N.	N. W. by N...	3	33	45	0	3	S. E. by S.	...S. W. by S.
		3 1/4	36	33	45	3 1/4		
		3 1/2	39	22	30	3 1/2		
		3 3/4	42	11	15	3 3/4		
N. E.....	...N. W.....	4	45	0	0	4	...S. E.....	...S. W.....
		4 1/4	47	48	45	4 1/4		
		4 1/2	50	37	30	4 1/2		
		4 3/4	53	26	15	4 3/4		
N. E. by E.	N W. by W...	5	56	15	0	5	S. E. by E.	S. W. by W.
		5 1/4	59	3	45	5 1/4		
		5 1/2	61	52	30	5 1/2		
		5 3/4	64	41	15	5 3/4		
E. N. E.....	...W. N. W...	6	67	30	0	6	...E. S. E....	...W. S. W....
		6 1/4	70	18	45	6 1/4		
		6 1/2	73	7	30	6 1/2		
		6 3/4	75	56	15	6 3/4		
E. by N.....	...W. by N....	7	78	45	0	7	...E. by S....	...W. by S....
		7 1/4	81	33	45	7 1/4		
		7 1/2	84	22	30	7 1/2		
		7 3/4	87	11	15	7 3/4		
East.....	.....West.....	8	90	0	0	8	.....East.....	.....West.....

LOGARITHMIC SINES, TANGENTS, AND SECANTS,

To every Point and Quarter Point of the Compass.

Points.	Sine.	Cosine.	Tangent.	Cotangent.	Secant.	Cosecant.	Points.
0	0.000000	10.000000	0.000000	Infinito.	10.000000	Infinita.	8
0 1/4	8.690796	9.909477	8.691319	11.306681	10.000623	11.306204	7 3/4
0 1/2	8.991302	9.997904	9.993398	11.006602	10.002006	11.006096	7 1/2
0 3/4	9.166520	9.995274	9.171247	10.828753	10.004796	10.833480	7 1/4
1	9.290236	9.991574	9.296663	10.701338	10.008426	10.709764	7
1 1/4	9.385671	9.986786	9.386785	10.601215	10.013214	10.614429	6 3/4
1 1/2	9.462294	9.980683	9.461939	10.518061	10.019115	10.537176	6 1/2
1 3/4	9.527488	9.973841	9.533047	10.446353	10.026559	10.472512	6 1/4
2	9.582940	9.966615	9.617294	10.382776	10.034385	10.417160	6
2 1/4	9.630092	9.958163	9.674829	10.325171	10.043537	10.369008	5 3/4
2 1/2	9.673387	9.948430	9.727837	10.273043	10.054370	10.326613	5 1/2
2 3/4	9.711680	9.937350	9.777700	10.222300	10.066559	10.288950	5 1/4
3	9.744739	9.924846	9.834893	10.175107	10.080154	10.253261	5
3 1/4	9.773027	9.910828	9.870199	10.129901	10.095172	10.224973	4 3/4
3 1/2	9.802359	9.896185	9.914173	10.085827	10.111815	10.197641	4 1/2
3 3/4	9.832359	9.880790	9.957395	10.042705	10.130210	10.172916	4 1/4
4	9.864945	9.864945	10.000000	10.000000	10.150515	10.150515	4
	Cosine.	Sine.	Cotangent.	Tangent.	Cosecant.	Secant.	

0 Degree, or 0 Hour.

"	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'
0	4-03343	2-25527	1-95424	1-77815	1-65321	1-55630	1-47712	1-41017	1-35218	1-30103
1	4-03342	2-24809	1-95084	1-77875	1-65141	1-55486	1-47592	1-40914	1-35128	1-30023
2	3-73239	2-24103	1-94706	1-77335	1-64961	1-55342	1-47472	1-40811	1-35036	1-29942
3	3-52630	2-23408	1-94352	1-77097	1-64782	1-55198	1-47352	1-40708	1-34948	1-29862
4	3-42136	2-22724	1-94000	1-76801	1-64603	1-55055	1-47232	1-40606	1-34868	1-29782
5	3-33445	2-22051	1-93651	1-76525	1-64496	1-54912	1-47113	1-40503	1-34768	1-29703
6	3-25527	2-21388	1-93305	1-76391	1-64349	1-54770	1-46994	1-40401	1-34679	1-29623
7	3-18333	2-20735	1-92962	1-76158	1-64072	1-54629	1-46876	1-40300	1-34589	1-29544
8	3-13033	2-20091	1-92621	1-75927	1-63897	1-54487	1-46758	1-40198	1-34500	1-29464
9	3-07918	2-19457	1-92283	1-75696	1-63723	1-54347	1-46640	1-40097	1-34411	1-29385
10	3-03343	2-18833	1-91948	1-75467	1-63548	1-54206	1-46522	1-39996	1-34323	1-29306
11	2-99203	2-18217	1-91615	1-75239	1-63375	1-54066	1-46405	1-39895	1-34234	1-29227
12	2-95424	2-17609	1-91285	1-75012	1-63202	1-53927	1-46286	1-39794	1-34146	1-29148
13	2-91948	2-17010	1-90957	1-74787	1-63030	1-53788	1-46171	1-39694	1-34058	1-29070
14	2-88730	2-16419	1-90632	1-74562	1-62859	1-53649	1-46055	1-39593	1-33970	1-28991
15	2-85733	2-15836	1-90309	1-74339	1-62688	1-53511	1-45939	1-39493	1-33882	1-28913
16	2-82930	2-15261	1-90008	1-74117	1-62518	1-53374	1-45824	1-39394	1-33794	1-28835
17	2-80297	2-14693	1-89670	1-73896	1-62349	1-53236	1-45708	1-39294	1-33707	1-28757
18	2-77815	2-14133	1-89354	1-73676	1-62180	1-53100	1-45593	1-39195	1-33619	1-28679
19	2-75467	2-13590	1-89041	1-73457	1-62012	1-52963	1-45478	1-39096	1-33532	1-28601
20	2-73239	2-13053	1-88730	1-73239	1-61845	1-52827	1-45364	1-38997	1-33445	1-28524
21	2-71120	2-12549	1-88420	1-73023	1-61678	1-52692	1-45250	1-38899	1-33359	1-28446
22	2-69100	2-11961	1-88114	1-72807	1-61512	1-52557	1-45136	1-38800	1-33272	1-28369
23	2-67170	2-11435	1-87809	1-72583	1-61347	1-52422	1-45022	1-38702	1-33186	1-28292
24	2-65321	2-10914	1-87506	1-72379	1-61182	1-52288	1-44909	1-38604	1-33099	1-28215
25	2-63548	2-10400	1-87206	1-72167	1-61018	1-52154	1-44796	1-38506	1-33013	1-28138
26	2-61845	2-09893	1-86907	1-71956	1-60854	1-52021	1-44684	1-38409	1-32927	1-28061
27	2-60206	2-09390	1-86611	1-71745	1-60691	1-51888	1-44571	1-38312	1-32842	1-27984
28	2-58627	2-08894	1-86316	1-71536	1-60529	1-51755	1-44459	1-38215	1-32756	1-27908
29	2-57103	2-08403	1-86024	1-71328	1-60367	1-51623	1-44347	1-38118	1-32671	1-27831
30	2-55630	2-07918	1-85733	1-71120	1-60206	1-51491	1-44236	1-38021	1-32585	1-27755
31	2-54206	2-07438	1-85445	1-70914	1-60045	1-51360	1-44125	1-37925	1-32499	1-27679
32	2-52827	2-06964	1-85158	1-70709	1-59885	1-51229	1-44014	1-37829	1-32415	1-27603
33	2-51491	2-06494	1-84873	1-70504	1-59726	1-51099	1-43903	1-37733	1-32331	1-27527
34	2-50194	2-06030	1-84590	1-70301	1-59567	1-50968	1-43793	1-37637	1-32246	1-27451
35	2-48936	2-05570	1-84309	1-70099	1-59409	1-50838	1-43683	1-37541	1-32162	1-27376
36	2-47712	2-05115	1-84030	1-69897	1-59251	1-50708	1-43573	1-37446	1-32077	1-27300
37	2-46522	2-04663	1-83752	1-69696	1-59094	1-50579	1-43463	1-37351	1-31993	1-27225
38	2-45364	2-04220	1-83477	1-69497	1-58938	1-50451	1-43354	1-37256	1-31909	1-27150
39	2-44236	2-03779	1-83203	1-69298	1-58782	1-50322	1-43245	1-37161	1-31826	1-27075
40	2-43136	2-03342	1-82930	1-69100	1-58627	1-50194	1-43136	1-37067	1-31742	1-27000
41	2-42064	2-02910	1-82660	1-68903	1-58472	1-50067	1-43028	1-36972	1-31659	1-26925
42	2-41017	2-02482	1-82391	1-68707	1-58317	1-49940	1-42920	1-36878	1-31575	1-26850
43	2-39996	2-02060	1-82124	1-68512	1-58164	1-49813	1-42812	1-36784	1-31492	1-26776
44	2-38997	2-01639	1-81858	1-68318	1-58011	1-49687	1-42704	1-36691	1-31409	1-26701
45	2-38021	2-01223	1-81594	1-68124	1-57858	1-49560	1-42597	1-36597	1-31326	1-26627
46	2-37067	2-00812	1-81332	1-67932	1-57706	1-49435	1-42490	1-36504	1-31244	1-26553
47	2-36133	2-00404	1-81071	1-67740	1-57554	1-49309	1-42383	1-36411	1-31161	1-26479
48	2-35218	2-00000	1-80811	1-67549	1-57403	1-49184	1-42276	1-36318	1-31079	1-26405
49	2-34323	1-99600	1-80554	1-67359	1-57253	1-49060	1-42170	1-36225	1-30997	1-26331
50	2-33445	1-99203	1-80297	1-67170	1-57103	1-48936	1-42064	1-36133	1-30915	1-26257
51	2-32585	1-98810	1-80043	1-66981	1-56953	1-48812	1-41958	1-36040	1-30833	1-26184
52	2-31742	1-98421	1-79790	1-66794	1-56804	1-48688	1-41853	1-35948	1-30751	1-26110
53	2-30915	1-98035	1-79538	1-66607	1-56656	1-48565	1-41747	1-35856	1-30670	1-26037
54	2-30103	1-97652	1-79287	1-66421	1-56508	1-48442	1-41642	1-35765	1-30588	1-25964
55	2-29306	1-97273	1-79039	1-66236	1-56360	1-48320	1-41538	1-35673	1-30507	1-25891
56	2-28524	1-96897	1-78791	1-66051	1-56213	1-48197	1-41433	1-35582	1-30426	1-25818
57	2-27758	1-96524	1-78545	1-65868	1-56067	1-48076	1-41329	1-35491	1-30345	1-25745
58	2-27000	1-96154	1-78300	1-65685	1-55921	1-47954	1-41225	1-35400	1-30264	1-25672
59	2-26257	1-95788	1-78057	1-65503	1-55775	1-47833	1-41121	1-35309	1-30183	1-25600

0 Degree, or 0 Hour.

"	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'
0	1.25597	1.21388	1.17609	1.14133	1.10914	1.07918	1.05115	1.02482	1.00000	0.97689
1	1.25485	1.21322	1.17549	1.14077	1.10863	1.07870	1.05070	1.02440	0.99960	0.97614
2	1.25383	1.21257	1.17489	1.14022	1.10811	1.07822	1.05025	1.02397	0.99920	0.97576
3	1.25311	1.21191	1.17429	1.13966	1.10760	1.07774	1.04980	1.02355	0.99880	0.97538
4	1.25239	1.21126	1.17369	1.13911	1.10703	1.07726	1.04935	1.02312	0.99839	0.97500
5	1.25167	1.21060	1.17309	1.13855	1.10637	1.07678	1.04890	1.02270	0.99790	0.97462
6	1.25095	1.20995	1.17249	1.13800	1.10605	1.07630	1.04845	1.02228	0.99750	0.97424
7	1.25024	1.20930	1.17189	1.13745	1.10584	1.07582	1.04800	1.02185	0.99719	0.97386
8	1.24952	1.20865	1.17129	1.13690	1.10503	1.07534	1.04755	1.02143	0.99679	0.97348
9	1.24881	1.20800	1.17070	1.13635	1.10452	1.07486	1.04710	1.02101	0.99640	0.97310
10	1.24809	1.20735	1.17010	1.13580	1.10400	1.07438	1.04665	1.02059	0.99600	0.97273
11	1.24738	1.20670	1.16951	1.13525	1.10340	1.07391	1.04620	1.02017	0.99560	0.97235
12	1.24667	1.20605	1.16891	1.13470	1.10288	1.07343	1.04576	1.01974	0.99520	0.97197
13	1.24596	1.20541	1.16832	1.13415	1.10247	1.07295	1.04531	1.01932	0.99480	0.97159
14	1.24526	1.20476	1.16773	1.13360	1.10197	1.07248	1.04486	1.01890	0.99441	0.97122
15	1.24455	1.20412	1.16714	1.13306	1.10146	1.07200	1.04442	1.01848	0.99401	0.97084
16	1.24384	1.20348	1.16655	1.13251	1.10095	1.07153	1.04397	1.01806	0.99361	0.97047
17	1.24314	1.20284	1.16596	1.13197	1.10044	1.07105	1.04353	1.01764	0.99322	0.97009
18	1.24244	1.20219	1.16537	1.13142	1.09994	1.07058	1.04309	1.01723	0.99283	0.96972
19	1.24173	1.20155	1.16478	1.13088	1.09943	1.07011	1.04264	1.01681	0.99243	0.96934
20	1.24103	1.20091	1.16419	1.13033	1.09893	1.06964	1.04220	1.01639	0.99203	0.96897
21	1.24033	1.20026	1.16361	1.12979	1.09842	1.06916	1.04175	1.01597	0.99164	0.96859
22	1.23963	1.19964	1.16302	1.12925	1.09792	1.06869	1.04131	1.01556	0.99124	0.96822
23	1.23894	1.19900	1.16243	1.12871	1.09741	1.06822	1.04087	1.01514	0.99085	0.96784
24	1.23824	1.19837	1.16185	1.12817	1.09691	1.06775	1.04043	1.01472	0.99045	0.96747
25	1.23754	1.19773	1.16127	1.12763	1.09641	1.06728	1.03999	1.01431	0.99006	0.96710
26	1.23685	1.19710	1.16068	1.12709	1.09591	1.06681	1.03955	1.01389	0.98967	0.96673
27	1.23616	1.19647	1.16010	1.12655	1.09540	1.06634	1.03911	1.01348	0.98928	0.96635
28	1.23546	1.19584	1.15952	1.12601	1.09490	1.06588	1.03867	1.01306	0.98888	0.96598
29	1.23477	1.19520	1.15894	1.12548	1.09440	1.06541	1.03823	1.01265	0.98849	0.96561
30	1.23408	1.19457	1.15836	1.12494	1.09390	1.06494	1.03779	1.01223	0.98810	0.96524
31	1.23339	1.19395	1.15778	1.12440	1.09341	1.06447	1.03735	1.01182	0.98771	0.96487
32	1.23271	1.19332	1.15721	1.12387	1.09291	1.06401	1.03691	1.01141	0.98732	0.96450
33	1.23202	1.19269	1.15663	1.12333	1.09241	1.06354	1.03647	1.01100	0.98693	0.96413
34	1.23133	1.19206	1.15605	1.12280	1.09191	1.06308	1.03604	1.01058	0.98654	0.96376
35	1.23065	1.19144	1.15548	1.12227	1.09142	1.06261	1.03560	1.01017	0.98615	0.96339
36	1.22997	1.19081	1.15490	1.12173	1.09092	1.06215	1.03516	1.00976	0.98576	0.96302
37	1.22928	1.19019	1.15433	1.12120	1.09042	1.06169	1.03473	1.00935	0.98537	0.96265
38	1.22860	1.18957	1.15375	1.12067	1.08993	1.06122	1.03429	1.00894	0.98498	0.96228
39	1.22792	1.18895	1.15318	1.12014	1.08943	1.06076	1.03386	1.00853	0.98459	0.96191
40	1.22724	1.18833	1.15261	1.11961	1.08894	1.06030	1.03342	1.00812	0.98421	0.96154
41	1.22657	1.18771	1.15204	1.11908	1.08845	1.05983	1.03299	1.00771	0.98382	0.96117
42	1.22589	1.18709	1.15147	1.11855	1.08796	1.05937	1.03255	1.00730	0.98343	0.96080
43	1.22521	1.18647	1.15090	1.11802	1.08746	1.05891	1.03212	1.00689	0.98304	0.96044
44	1.22454	1.18585	1.15033	1.11750	1.08697	1.05845	1.03169	1.00648	0.98265	0.96007
45	1.22386	1.18523	1.14976	1.11697	1.08648	1.05799	1.03126	1.00607	0.98227	0.95971
46	1.22319	1.18462	1.14919	1.11644	1.08599	1.05753	1.03083	1.00567	0.98189	0.95934
47	1.22252	1.18400	1.14863	1.11592	1.08550	1.05707	1.03039	1.00526	0.98150	0.95897
48	1.22185	1.18339	1.14806	1.11539	1.08501	1.05662	1.02996	1.00485	0.98111	0.95861
49	1.22118	1.18278	1.14750	1.11487	1.08452	1.05616	1.02953	1.00445	0.98073	0.95824
50	1.22051	1.18217	1.14693	1.11435	1.08403	1.05570	1.02910	1.00404	0.98035	0.95788
51	1.21984	1.18155	1.14637	1.11382	1.08355	1.05524	1.02867	1.00363	0.97996	0.95751
52	1.21918	1.18094	1.14581	1.11330	1.08306	1.05479	1.02824	1.00323	0.97958	0.95715
53	1.21851	1.18033	1.14524	1.11278	1.08257	1.05433	1.02781	1.00282	0.97919	0.95679
54	1.21785	1.17973	1.14468	1.11226	1.08209	1.05388	1.02739	1.00242	0.97881	0.95642
55	1.21718	1.17912	1.14412	1.11174	1.08160	1.05342	1.02696	1.00202	0.97843	0.95606
56	1.21652	1.17851	1.14356	1.11122	1.08112	1.05297	1.02653	1.00161	0.97805	0.95569
57	1.21586	1.17790	1.14300	1.11070	1.08063	1.05251	1.02610	1.00121	0.97766	0.95533
58	1.21520	1.17730	1.14244	1.11018	1.08015	1.05206	1.02568	1.00080	0.97728	0.95497
59	1.21454	1.17669	1.14189	1.10966	1.07966	1.05161	1.02525	1.00040	0.97690	0.95460

0 Degree, or 0 Hour.										
"	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'
0	95424	93305	91285	89354	87500	85733	84030	82391	80811	79287
1	95388	93271	91252	89323	87476	85704	84002	82363	80783	79259
2	95352	93236	91219	89292	87446	85675	83974	82335	80755	79231
3	95316	93202	91186	89260	87410	85646	83946	82307	80724	79203
4	95280	93168	91154	89229	87386	85618	83919	82284	80698	79188
5	95244	93133	91121	89197	87356	85589	83891	82257	80669	79163
6	95208	93099	91088	89169	87326	85560	83863	82230	80640	79138
7	95172	93065	91055	89136	87296	85531	83835	82204	80611	79113
8	95136	93030	91023	89103	87266	85502	83808	82177	80582	79088
9	95100	92996	90993	89072	87236	85473	83780	82150	80553	79063
10	95064	92962	90957	89041	87206	85445	83752	82124	80524	79039
11	95028	92928	90925	89010	87176	85416	83725	82097	80495	79014
12	94992	92894	90892	88978	87146	85387	83697	82070	80466	78989
13	94956	92860	90859	88947	87116	85358	83670	82044	80437	78964
14	94921	92825	90827	88916	87086	85329	83642	82017	80408	78939
15	94885	92791	90794	88885	87056	85301	83614	81991	80379	78915
16	94849	92757	90762	88854	87026	85272	83587	81964	80350	78890
17	94813	92723	90729	88823	86996	85244	83559	81938	80321	78865
18	94778	92689	90697	88792	86967	85215	83532	81911	80292	78840
19	94742	92655	90664	88761	86937	85187	83504	81884	80263	78816
20	94706	92621	90632	88730	86907	85158	83477	81858	80234	78791
21	94671	92587	90599	88699	86877	85129	83449	81832	80205	78766
22	94635	92554	90567	88668	86848	85101	83422	81805	80176	78741
23	94600	92520	90535	88637	86818	85072	83394	81779	80147	78717
24	94564	92486	90503	88606	86788	85044	83367	81752	80118	78692
25	94529	92452	90470	88575	86759	85015	83339	81726	80089	78668
26	94493	92418	90438	88544	86729	84987	83312	81699	80064	78643
27	94458	92385	90406	88513	86699	84959	83285	81673	80039	78619
28	94423	92351	90373	88482	86670	84930	83257	81647	80014	78594
29	94387	92317	90341	88451	86640	84902	83230	81620	79989	78570
30	94352	92283	90309	88420	86611	84873	83203	81594	79964	78545
31	94317	92250	90277	88390	86581	84845	83175	81568	79939	78521
32	94281	92216	90245	88359	86552	84816	83148	81541	79914	78496
33	94246	92183	90213	88328	86522	84788	83121	81515	79889	78472
34	94211	92149	90181	88297	86493	84760	83094	81488	79864	78447
35	94176	92115	90148	88267	86463	84732	83066	81463	79839	78423
36	94141	92082	90116	88236	86434	84703	83039	81436	79814	78398
37	94105	92048	90084	88205	86404	84675	83012	81410	79789	78374
38	94070	92015	90052	88175	86375	84647	82985	81384	79764	78349
39	94035	91981	90020	88144	86346	84619	82958	81358	79739	78325
40	94000	91948	89988	88114	86316	84591	82930	81332	79714	78300
41	93965	91915	89957	88083	86287	84562	82903	81305	79689	78276
42	93930	91881	89925	88052	86258	84534	82876	81279	79664	78251
43	93895	91848	89893	88022	86228	84506	82849	81253	79639	78227
44	93860	91815	89861	87991	86199	84478	82822	81227	79614	78202
45	93825	91781	89829	87961	86170	84450	82795	81201	79589	78178
46	93791	91748	89797	87930	86140	84421	82768	81175	79564	78153
47	93756	91715	89766	87900	86111	84393	82741	81149	79539	78129
48	93721	91682	89734	87870	86082	84365	82714	81123	79514	78104
49	93686	91648	89702	87839	86053	84337	82687	81097	79489	78080
50	93651	91615	89670	87809	86024	84309	82660	81071	79464	78055
51	93617	91582	89639	87778	85995	84281	82633	81045	79439	78031
52	93582	91549	89607	87748	85965	84253	82606	81019	79414	78006
53	93547	91516	89575	87718	85936	84225	82579	80993	79389	77981
54	93513	91483	89544	87687	85907	84197	82552	80967	79364	77957
55	93478	91450	89512	87657	85878	84169	82525	80941	79339	77932
56	93443	91417	89481	87627	85849	84141	82498	80915	79314	77908
57	93409	91384	89449	87597	85820	84114	82471	80889	79289	77883
58	93374	91351	89417	87566	85791	84086	82445	80863	79264	77859
59	93340	91318	89386	87536	85762	84058	82418	80837	79239	77834

0 Degree, or 0 Hour.										
"	30'	31'	32'	33'	34'	35'	36'	37'	38'	39'
0	77815	76391	75012	73676	72379	71120	69897	68707	67549	66421
1	77791	76368	74990	73654	72357	71100	69877	68688	67530	66402
2	77767	76344	74967	73630	72333	71079	69857	68668	67511	66384
3	77743	76321	74944	73610	72318	71058	69837	68648	67492	66365
4	77719	76298	74922	73588	72294	71038	69817	68629	67473	66347
5	77695	76274	74899	73566	72273	71017	69797	68609	67454	66328
6	77671	76251	74877	73544	72252	70997	69777	68590	67435	66310
7	77647	76228	74854	73523	72231	70976	69756	68570	67416	66291
8	77623	76205	74832	73501	72209	70955	69736	68551	67397	66273
9	77599	76181	74809	73479	72188	70935	69716	68531	67378	66254
10	77575	76158	74787	73457	72167	70914	69696	68512	67359	66236
11	77551	76135	74764	73435	72146	70894	69676	68492	67340	66217
12	77527	76112	74742	73413	72125	70873	69656	68473	67321	66199
13	77503	76089	74719	73392	72103	70853	69636	68454	67302	66180
14	77479	76065	74697	73370	72082	70832	69616	68434	67283	66162
15	77455	76042	74674	73348	72061	70811	69596	68415	67264	66143
16	77431	76019	74652	73326	72040	70791	69576	68395	67245	66125
17	77407	75996	74629	73305	72019	70770	69557	68376	67226	66106
18	77383	75973	74607	73283	71998	70750	69537	68356	67207	66088
19	77359	75950	74585	73261	71977	70729	69517	68337	67188	66070
20	77335	75927	74563	73239	71956	70709	69497	68318	67169	66051
21	77311	75903	74540	73218	71935	70688	69477	68298	67151	66033
22	77288	75880	74517	73196	71914	70668	69457	68279	67132	66014
23	77264	75857	74495	73174	71893	70647	69437	68259	67113	65996
24	77240	75834	74473	73153	71871	70627	69417	68240	67094	65978
25	77216	75811	74450	73131	71850	70606	69397	68221	67075	65959
26	77192	75788	74428	73109	71829	70586	69377	68201	67056	65941
27	77168	75765	74406	73088	71808	70566	69358	68182	67038	65923
28	77144	75742	74383	73066	71787	70545	69338	68163	67019	65904
29	77121	75719	74361	73044	71766	70525	69318	68143	67000	65886
30	77097	75696	74339	73023	71745	70504	69298	68124	66981	65868
31	77074	75673	74317	73001	71724	70484	69278	68105	66962	65849
32	77050	75650	74294	72980	71703	70464	69258	68086	66944	65831
33	77026	75627	74272	72958	71683	70443	69239	68066	66925	65813
34	77002	75604	74250	72936	71662	70423	69219	68047	66906	65794
35	76979	75581	74228	72915	71641	70403	69199	68028	66887	65776
36	76955	75558	74205	72893	71620	70382	69179	68008	66868	65758
37	76931	75535	74183	72872	71599	70362	69159	67989	66850	65739
38	76908	75513	74161	72850	71578	70342	69140	67970	66831	65721
39	76884	75490	74139	72829	71557	70321	69120	67951	66812	65703
40	76861	75467	74117	72807	71536	70301	69100	67932	66794	65685
41	76837	75444	74095	72786	71515	70281	69080	67912	66775	65666
42	76813	75421	74073	72764	71494	70260	69061	67893	66756	65648
43	76790	75398	74050	72743	71473	70240	69041	67874	66737	65630
44	76766	75376	74028	72721	71453	70220	69021	67855	66719	65612
45	76743	75353	74006	72700	71432	70200	69002	67836	66700	65594
46	76719	75330	73984	72678	71411	70179	68982	67816	66681	65575
47	76696	75307	73962	72657	71390	70159	68963	67797	66663	65557
48	76672	75285	73940	72636	71369	70139	68942	67778	66644	65539
49	76649	75262	73918	72614	71349	70119	68923	67759	66625	65521
50	76625	75239	73896	72593	71328	70099	68903	67740	66607	65503
51	76602	75216	73874	72571	71307	70078	68884	67721	66588	65485
52	76578	75194	73852	72550	71286	70058	68864	67702	66570	65468
53	76555	75171	73830	72529	71265	70038	68844	67683	66551	65449
54	76531	75148	73808	72507	71245	70018	68825	67663	66532	65430
55	76508	75126	73786	72486	71224	69998	68805	67644	66514	65412
56	76485	75103	73764	72465	71203	69977	68785	67625	66495	65394
57	76461	75080	73742	72443	71183	69957	68766	67606	66477	65376
58	76438	75058	73720	72422	71162	69937	68746	67587	66458	65357
59	76414	75035	73698	72401	71141	69917	68727	67568	66439	65339

0 Degree, or 0 Hour.										
"	40'	41'	42'	43'	44'	45'	46'	47'	48'	49'
0	65321	64949	63202	62180	61182	60206	59251	58317	57403	56508
1	65303	64931	63185	62164	61168	60190	59236	58302	57398	56493
2	65285	64914	63168	62147	61149	60174	59220	58287	57373	56478
3	65267	64196	63151	62130	61133	60158	59204	58271	57358	56463
4	65249	64178	63133	62113	61116	60142	59189	58256	57343	56449
5	65231	64161	63116	62096	61100	60126	59173	58241	57328	56434
6	65213	64143	63099	62080	61083	60110	59157	58225	57313	56419
7	65195	64125	63082	62063	61067	60094	59141	58210	57296	56404
8	65177	64108	63065	62046	61051	60078	59126	58194	57283	56390
9	65159	64090	63047	62029	61034	60061	59110	58179	57268	56375
10	65141	64073	63030	62012	61018	60045	59094	58164	57253	56360
11	65123	64055	63013	61996	61001	60029	59079	58148	57238	56345
12	65105	64038	62996	61979	60985	60013	59063	58133	57223	56331
13	65087	64020	62979	61962	60968	60007	59047	58118	57208	56316
14	65069	64002	62962	61945	60952	59991	59032	58109	57193	56301
15	65051	63985	62945	61929	60936	59985	59016	58087	57178	56287
16	65033	63967	62927	61912	60920	59949	59000	58072	57163	56272
17	65015	63950	62910	61895	60903	59933	58985	58066	57148	56257
18	64997	63932	62893	61878	60887	59917	58969	58041	57133	56243
19	64979	63915	62876	61863	60871	59901	58954	58026	57118	56228
20	64961	63897	62859	61845	60854	59885	58938	58011	57103	56213
21	64943	63880	62842	61828	60836	59870	58922	57995	57088	56199
22	64925	63862	62825	61812	60822	59854	58907	57980	57073	56184
23	64907	63845	62808	61795	60805	59838	58891	57965	57058	56169
24	64889	63827	62791	61778	60789	59822	58875	57949	57043	56154
25	64871	63810	62774	61762	60773	59806	58860	57934	57028	56140
26	64853	63792	62757	61745	60756	59790	58844	57919	57013	56125
27	64835	63775	62739	61728	60740	59774	58829	57904	56998	56111
28	64818	63757	62723	61712	60724	59758	58813	57888	56983	56096
29	64800	63740	62706	61695	60708	59742	58798	57873	56968	56081
30	64783	63722	62688	61678	60691	59726	58782	57858	56953	56067
31	64764	63705	62671	61662	60675	59710	58766	57843	56938	56052
32	64746	63688	62654	61645	60659	59694	58751	57827	56923	56037
33	64728	63670	62637	61628	60642	59678	58735	57812	56908	56023
34	64710	63653	62620	61612	60626	59663	58720	57797	56893	56008
35	64692	63635	62603	61595	60610	59647	58704	57782	56879	55994
36	64675	63618	62586	61579	60594	59631	58689	57767	56864	55979
37	64657	63601	62569	61562	60578	59615	58673	57751	56849	55964
38	64639	63583	62552	61545	60561	59599	58658	57736	56834	55950
39	64621	63566	62535	61529	60545	59583	58642	57721	56819	55935
40	64603	63548	62518	61512	60529	59567	58627	57706	56804	55921
41	64586	63531	62501	61496	60513	59551	58611	57691	56789	55906
42	64568	63514	62484	61479	60496	59535	58596	57675	56774	55892
43	64550	63496	62468	61463	60480	59520	58580	57660	56759	55877
44	64533	63479	62451	61446	60464	59504	58565	57645	56745	55863
45	64514	63462	62434	61429	60448	59488	58549	57630	56730	55848
46	64497	63444	62417	61413	60432	59473	58534	57615	56715	55833
47	64479	63427	62400	61396	60416	59457	58518	57600	56700	55819
48	64461	63410	62383	61380	60399	59441	58503	57584	56685	55804
49	64443	63392	62366	61363	60383	59425	58487	57569	56670	55790
50	64426	63375	62349	61347	60367	59409	58472	57554	56656	55775
51	64408	63358	62332	61330	60351	59393	58456	57539	56641	55761
52	64390	63340	62315	61314	60335	59378	58441	57524	56626	55746
53	64373	63323	62298	61297	60319	59362	58425	57509	56611	55732
54	64355	63306	62282	61281	60303	59346	58410	57494	56596	55717
55	64337	63289	62265	61264	60286	59330	58395	57479	56582	55703
56	64320	63271	62248	61248	60270	59314	58379	57463	56567	55688
57	64302	63254	62231	61231	60254	59299	58364	57448	56552	55674
58	64284	63237	62214	61215	60238	59283	58348	57433	56537	55659
59	64267	63220	62197	61198	60222	59267	58333	57418	56522	55645

0 Degree, or 0 Hour.										
"	50'	51'	52'	53'	54'	55'	56'	57'	58'	59'
0	55630	54770	53927	53100	52288	51491	50708	49940	49184	48442
1	55616	54756	53913	53086	52274	51478	50696	49927	49172	48430
2	55601	54742	53899	53072	52261	51465	50683	49914	49160	48418
3	55587	54728	53885	53059	52248	51452	50670	49902	49147	48405
4	55572	54714	53871	53045	52234	51439	50657	49889	49135	48393
5	55558	54699	53857	53031	52221	51425	50644	49876	49122	48381
6	55543	54685	53843	53018	52208	51412	50631	49864	49110	48369
7	55529	54671	53830	53004	52194	51399	50618	49851	49097	48356
8	55515	54657	53816	52991	52181	51386	50605	49838	49085	48344
9	55500	54643	53802	52977	52167	51373	50592	49826	49072	48332
10	55486	54629	53788	52963	52154	51360	50579	49813	49060	48320
11	55471	54614	53774	52950	52141	51346	50566	49800	49047	48307
12	55457	54600	53760	52936	52127	51333	50554	49788	49035	48295
13	55442	54586	53746	52923	52114	51320	50541	49775	49023	48283
14	55428	54572	53732	52909	52101	51307	50528	49762	49010	48271
15	55414	54558	53719	52895	52087	51294	50515	49750	48998	48258
16	55399	54544	53705	52882	52074	51281	50502	49737	48985	48246
17	55385	54530	53691	52868	52061	51268	50489	49724	48973	48234
18	55370	54516	53677	52855	52047	51255	50476	49712	48960	48222
19	55356	54501	53663	52841	52034	51242	50464	49699	48948	48210
20	55342	54487	53649	52827	52021	51229	50451	49687	48936	48197
21	55327	54473	53636	52814	52007	51215	50438	49674	48923	48185
22	55313	54459	53622	52800	51994	51202	50425	49661	48911	48173
23	55299	54445	53608	52787	51981	51189	50412	49649	48898	48161
24	55284	54431	53594	52773	51967	51176	50399	49636	48886	48149
25	55270	54417	53580	52760	51954	51163	50387	49623	48874	48136
26	55255	54403	53567	52746	51941	51150	50374	49611	48861	48124
27	55241	54389	53553	52733	51927	51137	50361	49599	48849	48112
28	55227	54375	53539	52719	51914	51124	50348	49586	48836	48100
29	55212	54361	53525	52705	51901	51111	50335	49573	48824	48088
30	55198	54347	53511	52692	51888	51098	50322	49560	48812	48076
31	55184	54333	53498	52678	51874	51085	50310	49548	48799	48063
32	55169	54318	53484	52665	51861	51072	50297	49535	48787	48051
33	55155	54304	53470	52651	51848	51059	50284	49523	48775	48039
34	55141	54290	53456	52638	51835	51046	50271	49510	48762	48027
35	55127	54276	53442	52624	51821	51033	50258	49498	48750	48015
36	55112	54262	53429	52611	51808	51020	50246	49485	48737	48003
37	55098	54248	53415	52597	51795	51007	50233	49473	48725	47990
38	55084	54234	53401	52584	51781	50994	50220	49460	48713	47978
39	55069	54220	53387	52570	51768	50981	50207	49447	48700	47966
40	55055	54206	53374	52557	51755	50968	50194	49435	48688	47954
41	55041	54192	53360	52543	51742	50955	50182	49422	48676	47942
42	55026	54178	53346	52530*	51729	50942	50169	49410	48663	47930
43	55012	54164	53332	52516	51715	50929	50156	49397	48651	47918
44	54998	54150	53319	52503	51702	50916	50143	49385	48639	47906
45	54984	54136	53305	52489	51689	50903	50131	49372	48626	47893
46	54969	54122	53291	52476	51676	50890	50118	49360	48614	47881
47	54955	54108	53278	52462	51663	50877	50105	49347	48602	47869
48	54941	54094	53264	52449	51649	50864	50092	49334	48590	47857
49	54927	54080	53250	52436	51636	50851	50080	49322	48577	47845
50	54913	54066	53236	52422	51623	50838	50067	49309	48565	47833
51	54898	54052	53223	52409	51610	50825	50054	49297	48553	47821
52	54884	54038	53209	52395	51596	50812	50041	49284	48540	47809
53	54870	54024	53195	52382	51583	50799	50029	49272	48528	47797
54	54855	54011	53182	52368	51570	50786	50016	49260	48516	47785
55	54841	53997	53168	52355	51557	50773	50003	49247	48503	47773
56	54827	53983	53154	52342	51544	50760	49991	49234	48491	47760
57	54813	53969	53141	52328	51530	50747	49978	49222	48479	47748
58	54799	53955	53127	52315	51517	50734	49965	49209	48467	47736
59	54784	53941	53113	52301	51504	50721	49953	49197	48454	47724

1 Degree, or 1 Hour.												
"	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'
0	47712	46894	46280	45593	44809	44236	43673	42920	42976	41649	41017	40401
1	47700	46982	46276	45582	44898	44225	43563	42909	42966	41639	41007	40391
2	47688	46971	46265	45570	44887	44214	43551	42898	42955	41628	41007	40381
3	47676	46959	46253	45559	44875	44203	43540	42887	42944	41611	40986	40371
4	47664	46947	46241	45547	44864	44191	43529	42877	42934	41600	40976	40361
5	47652	46935	46230	45536	44853	44180	43518	42866	42923	41590	40966	40350
6	47640	46923	46218	45524	44841	44169	43507	42855	42912	41579	40955	40340
7	47628	46911	46206	45513	44830	44158	43496	42844	42902	41568	40945	40330
8	47616	46899	46195	45501	44819	44147	43485	42833	42891	41558	40935	40320
9	47604	46888	46184	45490	44808	44136	43474	42823	42881	41548	40924	40310
10	47592	46876	46171	45478	44796	44125	43463	42812	42870	41538	40914	40300
11	47580	46864	46160	45467	44785	44114	43452	42801	42859	41527	40904	40289
12	47568	46852	46148	45456	44774	44102	43441	42790	42848	41517	40894	40279
13	47556	46840	46137	45444	44762	44091	43431	42780	42838	41506	40883	40269
14	47544	46828	46125	45433	44751	44080	43420	42769	42827	41496	40873	40259
15	47532	46817	46113	45421	44740	44069	43409	42758	42817	41485	40863	40249
16	47520	46805	46102	45410	44729	44058	43398	42747	42806	41475	40852	40239
17	47508	46793	46090	45398	44717	44047	43387	42737	42796	41464	40842	40228
18	47496	46781	46078	45387	44706	44036	43376	42726	42785	41454	40832	40218
19	47484	46769	46067	45375	44695	44025	43365	42715	42774	41443	40821	40208
20	47472	46758	46055	45364	44684	44014	43354	42704	42763	41433	40811	40198
21	47460	46746	46044	45353	44672	44003	43343	42693	42753	41423	40801	40188
22	47448	46734	46032	45341	44661	43992	43332	42683	42743	41412	40791	40178
23	47436	46722	46020	45330	44650	43981	43321	42672	42732	41402	40780	40168
24	47424	46710	46009	45318	44639	43969	43310	42662	42722	41391	40770	40157
25	47412	46699	45997	45307	44627	43958	43300	42651	42711	41381	40760	40147
26	47400	46687	45986	45295	44616	43947	43289	42640	42700	41370	40749	40137
27	47388	46675	45974	45284	44605	43936	43278	42629	42690	41360	40739	40127
28	47376	46663	45962	45273	44594	43925	43267	42618	42679	41350	40729	40117
29	47364	46652	45951	45261	44583	43914	43256	42608	42669	41340	40719	40107
30	47352	46640	45939	45250	44571	43903	43245	42597	42658	41330	40708	40097
31	47340	46628	45928	45239	44560	43892	43234	42586	42647	41320	40698	40087
32	47328	46616	45916	45227	44549	43881	43223	42575	42637	41310	40688	40078
33	47316	46604	45905	45216	44538	43870	43212	42565	42627	41300	40678	40068
34	47304	46593	45893	45204	44526	43859	43202	42554	42617	41290	40667	40058
35	47292	46581	45881	45193	44515	43848	43191	42543	42607	41280	40657	40048
36	47280	46569	45870	45182	44504	43837	43180	42533	42597	41270	40647	40038
37	47268	46557	45858	45170	44493	43826	43169	42522	42587	41260	40637	40028
38	47256	46546	45847	45159	44482	43815	43158	42511	42576	41250	40627	40018
39	47244	46534	45835	45147	44470	43804	43147	42500	42565	41240	40617	40008
40	47232	46522	45824	45136	44459	43793	43136	42490	42555	41230	40607	39998
41	47220	46510	45812	45125	44448	43782	43126	42479	42544	41220	40597	39988
42	47208	46499	45800	45113	44437	43771	43115	42468	42533	41210	40587	39978
43	47196	46487	45789	45102	44426	43760	43104	42458	42523	41200	40577	39968
44	47184	46475	45777	45091	44414	43749	43093	42447	42512	41190	40567	39958
45	47173	46464	45766	45079	44403	43738	43082	42436	42501	41180	40557	39948
46	47161	46452	45754	45068	44392	43727	43071	42426	42490	41170	40547	39938
47	47149	46440	45743	45057	44381	43716	43060	42415	42479	41160	40537	39928
48	47137	46428	45731	45045	44370	43705	43050	42404	42468	41150	40527	39918
49	47125	46417	45720	45034	44359	43694	43039	42394	42458	41140	40517	39908
50	47113	46405	45708	45022	44347	43683	43028	42383	42447	41130	40507	39898
51	47101	46393	45697	45011	44336	43672	43017	42372	42437	41120	40497	39888
52	47089	46382	45685	45000	44325	43661	43006	42362	42426	41110	40487	39878
53	47077	46370	45674	44988	44314	43650	42995	42351	42416	41100	40477	39868
54	47066	46358	45663	44977	44303	43639	42985	42340	42405	41090	40467	39858
55	47054	46346	45651	44966	44292	43628	42974	42330	42395	41080	40457	39848
56	47042	46335	45639	44955	44280	43617	42963	42319	42384	41070	40447	39838
57	47030	46323	45628	44943	44269	43606	42952	42308	42373	41060	40437	39828
58	47018	46311	45616	44932	44258	43595	42941	42298	42363	41050	40427	39818
59	47006	46300	45604	44921	44247	43584	42931	42287	42352	41040	40417	39808

1 Degree, or 1 Hour.												
"	1'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'
0	36704	36196	36604	36091	37446	36678	36318	35766	35218	34679	34146	33619
1	36704	36186	36594	36081	37436	36669	36309	35757	35209	34670	34137	33611
2	36774	36176	36585	36072	37427	36660	36299	35746	35200	34661	34128	33602
3	36704	36166	36575	36062	37417	36650	36290	35737	35191	34652	34119	33593
4	36704	36156	36565	36053	37408	36641	36281	35728	35182	34643	34111	33585
5	36744	36145	36555	36043	37398	36631	36271	35719	35173	34634	34102	33576
6	36734	36135	36545	36033	37389	36622	36262	35710	35164	34625	34093	33567
7	36724	36126	36536	36024	37379	36612	36253	35700	35155	34616	34084	33558
8	36714	36116	36526	36014	37370	36603	36244	35691	35146	34607	34075	33550
9	36704	36106	36516	36004	37360	36594	36234	35682	35137	34598	34066	33541
10	36694	36096	36506	35995	37351	36584	36224	35673	35128	34589	34057	33532
11	36684	36086	36497	35985	37341	36575	36214	35664	35119	34581	34049	33524
12	36674	36076	36487	35975	37332	36566	36204	35655	35110	34572	34040	33515
13	36664	36066	36477	35965	37322	36556	36194	35646	35101	34563	34031	33506
14	36654	36056	36467	35955	37313	36547	36184	35636	35092	34554	34022	33498
15	36644	36046	36458	35945	37303	36537	36174	35627	35083	34545	34014	33489
16	36634	36037	36448	35935	37294	36528	36164	35618	35074	34536	34005	33480
17	36624	36027	36438	35925	37284	36519	36154	35609	35065	34527	33996	33471
18	36614	36017	36428	35915	37275	36509	36144	35600	35056	34518	33987	33463
19	36604	36007	36419	35905	37265	36500	36134	35591	35047	34509	33978	33454
20	36594	35997	36409	35895	37256	36491	36123	35582	35038	34500	33970	33445
21	36584	35987	36399	35885	37246	36481	36113	35573	35029	34491	33961	33437
22	36574	35977	36389	35875	37237	36472	36104	35563	35020	34483	33952	33428
23	36564	35968	36380	35865	37227	36463	36095	35554	35011	34474	33943	33419
24	36554	35958	36370	35855	37218	36453	36086	35545	35002	34465	33935	33411
25	36544	35948	36360	35845	37208	36444	36076	35536	34993	34456	33926	33402
26	36534	35938	36351	35835	37199	36434	36067	35527	34984	34447	33917	33393
27	36524	35928	36341	35825	37189	36425	36058	35518	34975	34438	33908	33385
28	36514	35918	36331	35815	37180	36416	36049	35509	34966	34429	33899	33376
29	36504	35908	36321	35805	37171	36406	36040	35500	34957	34420	33891	33367
30	36494	35898	36312	35795	37161	36397	36030	35491	34948	34411	33882	33358
31	36484	35888	36302	35785	37152	36388	36021	35482	34939	34403	33873	33350
32	36474	35879	36292	35775	37143	36378	36012	35473	34930	34394	33864	33341
33	36464	35869	36282	35765	37133	36369	36003	35463	34921	34385	33856	33333
34	36454	35859	36273	35755	37123	36360	35993	35454	34912	34376	33847	33324
35	36444	35849	36263	35745	37114	36350	35984	35445	34903	34367	33838	33315
36	36434	35839	36253	35735	37104	36341	35975	35436	34894	34358	33829	33307
37	36424	35830	36244	35725	37095	36332	35966	35427	34885	34349	33820	33298
38	36414	35820	36234	35715	37085	36322	35957	35418	34876	34340	33812	33289
39	36404	35810	36224	35705	37076	36313	35948	35409	34867	34332	33803	33281
40	36394	35800	36215	35695	37067	36304	35939	35400	34858	34323	33794	33272
41	36384	35790	36205	35685	37057	36294	35930	35391	34849	34314	33785	33263
42	36374	35781	36195	35675	37048	36285	35921	35382	34840	34305	33777	33255
43	36364	35771	36186	35665	37038	36276	35912	35372	34831	34296	33768	33246
44	36354	35761	36176	35655	37029	36267	35903	35363	34822	34287	33759	33237
45	36344	35751	36166	35645	37019	36257	35894	35354	34813	34278	33750	33229
46	36334	35741	36156	35635	37010	36248	35885	35345	34804	34270	33742	33220
47	36324	35731	36147	35625	37001	36239	35876	35336	34795	34261	33733	33211
48	36314	35722	36137	35615	36991	36229	35867	35327	34786	34252	33724	33203
49	36304	35712	36127	35605	36982	36220	35858	35318	34777	34243	33715	33194
50	36294	35702	36118	35595	36973	36211	35849	35309	34768	34234	33707	33186
51	36284	35692	36108	35585	36963	36201	35840	35300	34759	34225	33698	33177
52	36274	35682	36098	35575	36953	36192	35831	35291	34750	34217	33689	33168
53	36264	35673	36089	35565	36944	36183	35822	35282	34741	34208	33681	33160
54	36254	35663	36079	35555	36935	36174	35813	35273	34732	34199	33672	33151
55	36244	35653	36069	35545	36925	36165	35804	35264	34723	34190	33663	33142
56	36234	35643	36060	35535	36916	36156	35795	35255	34715	34181	33654	33134
57	36224	35633	36050	35525	36906	36146	35786	35246	34706	34172	33646	33125
58	36214	35624	36040	35515	36897	36137	35777	35237	34697	34164	33637	33117
59	36204	35614	36031	35505	36888	36127	35774	35227	34688	34155	33628	33108

1 Degree, or 1 Hour.

n	24'	25'	26'	27'	28'	29'	30'	31'	32'	33'	34'	35'
0	33099	33585	33077	31575	31079	30588	30103	29633	29148	28679	28214	27753
1	33091	33577	33069	31567	31071	30580	30095	29625	29141	28671	28207	27747
2	33082	33568	33061	31559	31063	30572	30087	29617	29133	28663	28199	27740
3	33073	33560	33052	31550	31054	30564	30079	29609	29125	28656	28191	27732
4	33065	33551	33044	31542	31046	30556	30071	29591	29117	28648	28184	27724
5	33056	33543	33035	31534	31038	30548	30063	29583	29109	28640	28176	27717
6	33048	33534	33027	31525	31030	30539	30055	29575	29101	28632	28168	27709
7	33039	33526	33019	31517	31021	30531	30047	29567	29093	28625	28161	27702
8	33030	33517	33010	31509	31013	30523	30039	29559	29086	28617	28153	27694
9	33022	33509	33002	31501	31005	30515	30031	29551	29078	28609	28145	27686
10	33013	33500	31993	31492	30997	30507	30023	29544	29070	28601	28138	27679
11	33005	33492	31985	31484	30989	30499	30015	29536	29062	28593	28130	27671
12	32996	33483	31977	31476	30980	30491	30007	29528	29054	28586	28122	27664
13	32987	33475	31968	31467	30972	30483	29999	29520	29046	28578	28114	27656
14	32979	33466	31960	31459	30964	30475	29991	29512	29038	28570	28107	27648
15	32970	33458	31951	31451	30956	30466	29983	29504	29031	28562	28099	27641
16	32962	33449	31943	31442	30948	30458	29975	29496	29023	28555	28091	27633
17	32953	33441	31935	31434	30939	30450	29967	29488	29015	28547	28084	27626
18	32944	33432	31926	31426	30931	30442	29959	29480	29007	28539	28076	27618
19	32936	33424	31918	31418	30923	30434	29950	29472	28999	28531	28068	27610
20	32927	33415	31909	31409	30915	30426	29942	29464	28991	28524	28061	27603
21	32919	33407	31901	31401	30907	30418	29934	29456	28984	28516	28053	27596
22	32910	33398	31893	31393	30899	30410	29926	29448	28976	28508	28045	27588
23	32902	33390	31884	31384	30890	30402	29918	29441	28968	28500	28038	27580
24	32893	33381	31876	31376	30882	30393	29910	29433	28960	28493	28030	27572
25	32884	33373	31867	31368	30874	30385	29902	29425	28952	28485	28022	27565
26	32876	33365	31859	31360	30866	30377	29894	29417	28944	28477	28015	27557
27	32867	33356	31851	31351	30857	30369	29886	29409	28937	28469	28007	27550
28	32859	33348	31842	31343	30849	30361	29878	29401	28929	28462	27999	27542
29	32850	33339	31834	31335	30841	30353	29870	29393	28921	28454	27992	27534
30	32842	33331	31826	31326	30833	30345	29862	29385	28913	28446	27984	27527
31	32833	33322	31817	31318	30825	30337	29854	29377	28905	28438	27976	27519
32	32824	33314	31809	31310	30817	30329	29846	29369	28897	28431	27969	27512
33	32816	33305	31801	31302	30809	30321	29838	29361	28890	28423	27961	27504
34	32807	33297	31792	31293	30800	30313	29830	29354	28882	28415	27953	27497
35	32799	33288	31784	31285	30792	30305	29822	29346	28874	28407	27946	27490
36	32790	33280	31775	31277	30784	30296	29814	29338	28866	28400	27938	27483
37	32782	33271	31767	31269	30776	30288	29806	29330	28858	28392	27930	27474
38	32773	33263	31759	31260	30768	30280	29798	29322	28851	28384	27922	27466
39	32765	33255	31750	31252	30760	30272	29790	29314	28843	28376	27915	27459
40	32756	33246	31742	31244	30751	30264	29782	29306	28835	28369	27908	27451
41	32747	33238	31734	31236	30743	30256	29775	29298	28827	28361	27900	27444
42	32739	33229	31725	31227	30735	30248	29767	29290	28819	28353	27892	27436
43	32730	33221	31717	31219	30727	30240	29759	29282	28811	28345	27884	27429
44	32722	33212	31709	31211	30719	30232	29751	29275	28804	28338	27877	27421
45	32713	33204	31700	31203	30710	30224	29743	29267	28796	28330	27869	27413
46	32705	33195	31692	31194	30702	30216	29735	29259	28788	28322	27861	27406
47	32696	33187	31684	31186	30694	30208	29727	29251	28780	28315	27854	27398
48	32688	33179	31675	31178	30686	30200	29719	29243	28772	28307	27846	27391
49	32679	33170	31667	31170	30678	30192	29711	29235	28765	28299	27839	27383
50	32671	33162	31659	31161	30670	30183	29703	29227	28757	28292	27831	27376
51	32662	33153	31650	31153	30662	30175	29695	29219	28749	28284	27824	27368
52	32654	33145	31642	31145	30654	30167	29687	29211	28741	28276	27816	27360
53	32645	33136	31634	31137	30645	30159	29679	29204	28733	28268	27808	27353
54	32636	33128	31626	31129	30637	30151	29671	29196	28726	28261	27801	27345
55	32628	33120	31617	31120	30629	30143	29663	29188	28718	28253	27793	27338
56	32619	33111	31609	31112	30621	30135	29655	29180	28710	28245	27785	27330
57	32611	33103	31600	31104	30613	30127	29647	29172	28702	28238	27778	27323
58	32602	33094	31592	31095	30605	30119	29639	29164	28695	28230	27770	27315
59	32594	33086	31584	31087	30596	30111	29631	29156	28687	28222	27763	27308

1 Degree, or 1 Hour.													
"	36'	37'	38'	39'	40'	41'	42'	43'	44'	45'	46'	47'	
0	27300	26850	26405	25964	25527	25095	24667	24244	23824	23408	22997	22589	
1	27293	26843	26397	25956	25520	25088	24660	24237	23817	23401	22990	22582	
2	27285	26835	26389	25948	25513	25081	24653	24230	23810	23395	22983	22575	
3	27278	26828	26382	25941	25506	25074	24646	24223	23803	23388	22976	22568	
4	27270	26820	26375	25934	25498	25066	24639	24215	23795	23381	22969	22561	
5	27262	26813	26368	25927	25491	25059	24632	24208	23788	23374	22962	22554	
6	27255	26805	26360	25920	25484	25052	24625	24201	23782	23367	22955	22547	
7	27247	26798	26353	25913	25477	25045	24618	24194	23775	23360	22948	22540	
8	27240	26790	26346	25905	25469	25038	24610	24187	23768	23353	22941	22533	
9	27232	26783	26339	25898	25462	25031	24603	24180	23761	23346	22935	22527	
10	27225	26776	26331	25891	25455	25024	24596	24173	23754	23339	22928	22520	
11	27217	26768	26323	25883	25448	25016	24588	24165	23747	23332	22921	22513	
12	27210	26761	26316	25876	25440	25009	24581	24158	23740	23325	22915	22507	
13	27202	26753	26309	25869	25433	25002	24575	24152	23734	23319	22908	22501	
14	27195	26746	26301	25861	25426	24995	24568	24145	23727	23312	22901	22494	
15	27187	26738	26294	25854	25419	24988	24561	24138	23720	23305	22894	22488	
16	27180	26731	26287	25847	25412	24981	24554	24131	23713	23298	22888	22481	
17	27172	26723	26279	25840	25404	24973	24547	24124	23706	23291	22881	22474	
18	27165	26716	26272	25832	25397	24966	24540	24117	23699	23284	22874	22467	
19	27157	26709	26265	25825	25390	24959	24533	24110	23692	23277	22867	22461	
20	27150	26701	26257	25818	25383	24952	24526	24103	23685	23271	22860	22454	
21	27142	26694	26250	25810	25376	24945	24518	24096	23678	23264	22854	22447	
22	27135	26686	26243	25803	25369	24938	24511	24089	23671	23257	22847	22440	
23	27127	26679	26235	25796	25361	24931	24504	24082	23664	23250	22840	22434	
24	27120	26671	26228	25789	25354	24923	24497	24075	23657	23243	22833	22427	
25	27112	26664	26220	25781	25347	24916	24490	24068	23650	23236	22826	22420	
26	27105	26656	26213	25774	25339	24909	24483	24061	23643	23229	22819	22413	
27	27097	26649	26206	25767	25332	24902	24476	24054	23636	23223	22813	22407	
28	27090	26642	26198	25760	25325	24895	24469	24047	23629	23215	22806	22400	
29	27082	26634	26191	25752	25318	24888	24462	24040	23623	23209	22799	22393	
30	27075	26627	26184	25745	25311	24881	24455	24033	23616	23202	22792	22386	
31	27067	26619	26176	25738	25303	24874	24448	24026	23609	23195	22785	22380	
32	27060	26612	26169	25730	25296	24866	24441	24019	23602	23188	22779	22373	
33	27052	26605	26162	25723	25289	24859	24434	24012	23596	23181	22773	22366	
34	27045	26597	26154	25716	25282	24852	24427	24006	23588	23175	22765	22359	
35	27037	26590	26147	25709	25275	24845	24420	23998	23581	23168	22758	22353	
36	27030	26582	26140	25701	25267	24838	24413	23991	23574	23161	22752	22346	
37	27022	26575	26133	25694	25260	24831	24405	23984	23567	23154	22745	22339	
38	27015	26567	26125	25687	25253	24824	24398	23977	23560	23147	22738	22333	
39	27007	26560	26118	25680	25246	24817	24391	23970	23553	23140	22731	22326	
40	27000	26553	26110	25672	25239	24809	24384	23963	23546	23133	22724	22319	
41	26992	26545	26103	25665	25231	24802	24377	23956	23539	23127	22718	22312	
42	26985	26538	26096	25658	25224	24795	24370	23949	23532	23120	22711	22306	
43	26977	26530	26088	25650	25217	24788	24363	23942	23526	23113	22704	22300	
44	26970	26523	26081	25643	25210	24781	24356	23935	23519	23106	22697	22292	
45	26962	26516	26074	25636	25203	24774	24349	23928	23512	23099	22690	22286	
46	26955	26508	26066	25629	25196	24767	24343	23921	23505	23092	22684	22279	
47	26947	26501	26059	25621	25188	24760	24335	23914	23498	23086	22677	22272	
48	26940	26493	26051	25614	25181	24752	24328	23908	23491	23079	22670	22265	
49	26932	26486	26044	25607	25174	24745	24321	23901	23484	23072	22663	22259	
50	26925	26479	26037	25600	25167	24738	24314	23894	23477	23065	22655	22253	
51	26917	26471	26030	25592	25160	24731	24307	23887	23470	23058	22650	22245	
52	26910	26464	26022	25585	25152	24724	24300	23880	23464	23051	22643	22239	
53	26902	26456	26015	25578	25145	24717	24293	23873	23457	23044	22636	22232	
54	26895	26449	26008	25571	25138	24710	24286	23866	23440	23038	22629	22225	
55	26887	26442	26000	25563	25131	24703	24279	23859	23434	23031	22623	22218	
56	26880	26434	25993	25556	25124	24696	24272	23852	23426	23024	22616	22212	
57	26872	26427	25986	25549	25117	24689	24265	23845	23420	23017	22609	22205	
58	26865	26419	25978	25542	25109	24681	24258	23838	23413	23010	22602	22198	
59	26858	26412	25971	25535	25102	24674	24251	23831	23415	23004	22596	22193	

1 Degree, or 1 Hour.

"	48'	49'	50'	51'	52'	53'	54'	55'	56'	57'	58'	59'
0	22185	21785	21388	20995	20605	20219	19837	19457	19081	18709	18339	17973
1	22178	21778	21381	20988	20598	20213	19830	19451	19075	18702	18333	17966
2	22171	21771	21375	20982	20593	20207	19824	19445	19069	18696	18327	17960
3	22165	21765	21368	20975	20580	20200	19818	19439	19063	18690	18321	17954
4	22158	21758	21363	20969	20580	20194	19811	19432	19056	18684	18315	17948
5	22151	21751	21355	20962	20573	20187	19805	19426	19050	18678	18308	17942
6	22145	21745	21349	20956	20567	20181	19799	19420	19044	18672	18302	17936
7	22138	21738	21342	20949	20560	20175	19792	19413	19038	18665	18296	17930
8	22131	21732	21335	20943	20554	20168	19786	19407	19032	18659	18290	17924
9	22125	21725	21329	20936	20547	20162	19780	19401	19025	18653	18284	17918
10	22118	21718	21322	20930	20541	20155	19773	19395	19019	18647	18278	17912
11	22111	21712	21316	20923	20534	20149	19767	19388	19013	18641	18272	17906
12	22105	21705	21309	20917	20528	20143	19761	19382	19007	18634	18266	17900
13	22098	21698	21303	20910	20522	20136	19754	19376	19000	18628	18260	17894
14	22091	21692	21296	20904	20515	20130	19748	19369	18994	18622	18253	17887
15	22084	21685	21289	20897	20509	20123	19742	19363	18988	18616	18247	17881
16	22078	21678	21283	20891	20502	20117	19735	19357	18982	18610	18241	17875
17	22071	21672	21276	20884	20496	20111	19729	19351	18976	18604	18235	17869
18	22064	21665	21270	20878	20489	20104	19723	19344	18969	18597	18229	17863
19	22058	21659	21263	20871	20483	20098	19716	19338	18963	18591	18223	17857
20	22051	21652	21257	20865	20476	20091	19710	19332	18957	18585	18217	17851
21	22044	21645	21250	20858	20470	20085	19704	19325	18951	18579	18210	17845
22	22038	21639	21243	20852	20464	20079	19697	19319	18944	18573	18204	17839
23	22031	21632	21237	20845	20457	20072	19691	19313	18938	18567	18196	17833
24	22024	21626	21230	20839	20451	20066	19685	19307	18932	18560	18192	17827
25	22018	21619	21224	20832	20444	20060	19678	19300	18926	18554	18186	17821
26	22011	21612	21217	20826	20438	20053	19672	19294	18920	18548	18180	17815
27	22004	21606	21211	20819	20431	20047	19666	19288	18913	18542	18174	17809
28	22000	21600	21204	20813	20425	20040	19659	19282	18907	18536	18168	17803
29	21991	21592	21196	20806	20418	20034	19653	19275	18901	18530	18162	17797
30	21984	21586	21191	20800	20412	20028	19647	19269	18895	18523	18156	17790
31	21978	21579	21184	20793	20406	20021	19640	19263	18888	18517	18149	17784
32	21971	21573	21178	20787	20399	20015	19634	19257	18882	18511	18143	17778
33	21964	21566	21171	20780	20393	20009	19628	19250	18876	18505	18137	17772
34	21958	21559	21165	20774	20386	20002	19621	19244	18870	18499	18131	17766
35	21951	21553	21158	20767	20380	19996	19615	19238	18864	18493	18125	17760
36	21944	21546	21152	20761	20373	19989	19609	19231	18857	18487	18119	17754
37	21938	21540	21145	20754	20367	19983	19602	19225	18851	18480	18113	17748
38	21931	21533	21139	20748	20361	19977	19596	19219	18845	18474	18107	17742
39	21924	21526	21132	20741	20354	19970	19590	19213	18839	18468	18100	17736
40	21918	21520	21126	20735	20348	19964	19584	19206	18833	18462	18094	17730
41	21911	21513	21119	20728	20341	19958	19577	19200	18826	18456	18088	17724
42	21904	21507	21112	20722	20335	19951	19571	19194	18820	18450	18082	17718
43	21898	21500	21106	20715	20328	19945	19565	19188	18814	18443	18076	17712
44	21891	21493	21100	20709	20322	19938	19558	19181	18808	18437	18070	17706
45	21884	21487	21093	20702	20316	19932	19552	19175	18802	18431	18064	17700
46	21878	21480	21086	20696	20309	19926	19546	19169	18795	18423	18058	17694
47	21871	21474	21080	20690	20303	19919	19539	19163	18789	18419	18052	17688
48	21864	21467	21073	20683	20296	19913	19533	19156	18783	18413	18046	17682
49	21858	21460	21067	20677	20290	19907	19527	19150	18777	18407	18040	17676
50	21851	21454	21060	20670	20284	19900	19520	19144	18771	18400	18033	17670
51	21844	21447	21054	20664	20277	19894	19514	19138	18764	18394	18027	17663
52	21838	21441	21047	20657	20271	19888	19508	19131	18758	18388	18021	17657
53	21831	21434	21041	20651	20264	19881	19502	19125	18752	18382	18015	17651
54	21824	21427	21034	20644	20258	19875	19496	19119	18746	18376	18009	17645
55	21818	21421	21028	20638	20251	19869	19490	19113	18740	18370	18003	17639
56	21811	21414	21021	20631	20245	19862	19483	19106	18733	18364	17997	17633
57	21805	21408	21015	20625	20239	19856	19476	19100	18727	18357	17991	17627
58	21798	21401	21008	20618	20232	19849	19470	19094	18721	18351	17985	17621
59	21791	21395	21001	20612	20226	19843	19464	19088	18715	18345	17979	17615

2 Degrees, or 2 Hours.											
"	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
0	17600	17940	16891	16337	16183	15826	15490	15147	14806	14468	14133
1	17603	17943	16895	16531	16179	15830	15484	15141	14801	14463	14127
2	17607	17947	16899	16535	16173	15825	15479	15136	14795	14457	14121
3	17611	17951	16903	16539	16177	15829	15483	15140	14799	14461	14125
4	17615	17955	16907	16543	16181	15833	15487	15144	14803	14465	14129
5	17619	17959	16911	16547	16185	15837	15491	15148	14807	14469	14133
6	17623	17963	16915	16551	16189	15841	15495	15152	14811	14473	14137
7	17627	17967	16919	16555	16193	15845	15499	15156	14815	14477	14141
8	17631	17971	16923	16559	16197	15849	15503	15160	14819	14481	14145
9	17635	17975	16927	16563	16201	15853	15507	15164	14823	14485	14149
10	17639	17979	16931	16567	16205	15857	15511	15168	14827	14489	14153
11	17643	17983	16935	16571	16209	15861	15515	15172	14831	14493	14157
12	17647	17987	16939	16575	16213	15865	15519	15176	14835	14497	14161
13	17651	17991	16943	16579	16217	15869	15523	15180	14839	14501	14165
14	17655	17995	16947	16583	16221	15873	15527	15184	14843	14505	14169
15	17659	17999	16951	16587	16225	15877	15531	15188	14847	14509	14173
16	17663	18003	16955	16591	16229	15881	15535	15192	14851	14513	14177
17	17667	18007	16959	16595	16233	15885	15539	15196	14855	14517	14181
18	17671	18011	16963	16599	16237	15889	15543	15200	14859	14521	14185
19	17675	18015	16967	16603	16241	15893	15547	15204	14863	14525	14189
20	17679	18019	16971	16607	16245	15897	15551	15208	14867	14529	14193
21	17683	18023	16975	16611	16249	15901	15555	15212	14871	14533	14197
22	17687	18027	16979	16615	16253	15905	15559	15216	14875	14537	14201
23	17691	18031	16983	16619	16257	15909	15563	15220	14879	14541	14205
24	17695	18035	16987	16623	16261	15913	15567	15224	14883	14545	14209
25	17699	18039	16991	16627	16265	15917	15571	15228	14887	14549	14213
26	17703	18043	16995	16631	16269	15921	15575	15232	14891	14553	14217
27	17707	18047	16999	16635	16273	15925	15579	15236	14895	14557	14221
28	17711	18051	17003	16639	16277	15929	15583	15240	14899	14561	14225
29	17715	18055	17007	16643	16281	15933	15587	15244	14903	14565	14229
30	17719	18059	17011	16647	16285	15937	15591	15248	14907	14569	14233
31	17723	18063	17015	16651	16289	15941	15595	15252	14911	14573	14237
32	17727	18067	17019	16655	16293	15945	15599	15256	14915	14577	14241
33	17731	18071	17023	16659	16297	15949	15603	15260	14919	14581	14245
34	17735	18075	17027	16663	16301	15953	15607	15264	14923	14585	14249
35	17739	18079	17031	16667	16305	15957	15611	15268	14927	14589	14253
36	17743	18083	17035	16671	16309	15961	15615	15272	14931	14593	14257
37	17747	18087	17039	16675	16313	15965	15619	15276	14935	14597	14261
38	17751	18091	17043	16679	16317	15969	15623	15280	14939	14601	14265
39	17755	18095	17047	16683	16321	15973	15627	15284	14943	14605	14269
40	17759	18099	17051	16687	16325	15977	15631	15288	14947	14609	14273
41	17763	18103	17055	16691	16329	15981	15635	15292	14951	14613	14277
42	17767	18107	17059	16695	16333	15985	15639	15296	14955	14617	14281
43	17771	18111	17063	16699	16337	15989	15643	15300	14959	14621	14285
44	17775	18115	17067	16703	16341	15993	15647	15304	14963	14625	14289
45	17779	18119	17071	16707	16345	15997	15651	15308	14967	14629	14293
46	17783	18123	17075	16711	16349	15999	15655	15312	14971	14633	14297
47	17787	18127	17079	16715	16353	16003	15659	15316	14975	14637	14301
48	17791	18131	17083	16719	16357	16007	15663	15320	14979	14641	14305
49	17795	18135	17087	16723	16361	16011	15667	15324	14983	14645	14309
50	17799	18139	17091	16727	16365	16015	15671	15328	14987	14649	14313
51	17803	18143	17095	16731	16369	16019	15675	15332	14991	14653	14317
52	17807	18147	17099	16735	16373	16023	15679	15336	14995	14657	14321
53	17811	18151	17103	16739	16377	16027	15683	15340	14999	14661	14325
54	17815	18155	17107	16743	16381	16031	15687	15344	15003	14665	14329
55	17819	18159	17111	16747	16385	16035	15691	15348	15007	14669	14333
56	17823	18163	17115	16751	16389	16039	15695	15352	15011	14673	14337
57	17827	18167	17119	16755	16393	16043	15699	15356	15015	14677	14341
58	17831	18171	17123	16759	16397	16047	15703	15360	15019	14681	14345
59	17835	18175	17127	16763	16401	16051	15707	15364	15023	14685	14349
60	17839	18179	17131	16767	16405	16055	15711	15368	15027	14689	14353
61	17843	18183	17135	16771	16409	16059	15715	15372	15031	14693	14357
62	17847	18187	17139	16775	16413	16063	15719	15376	15035	14697	14361
63	17851	18191	17143	16779	16417	16067	15723	15380	15039	14701	14365
64	17855	18195	17147	16783	16421	16071	15727	15384	15043	14705	14369
65	17859	18199	17151	16787	16425	16075	15731	15388	15047	14709	14373
66	17863	18203	17155	16791	16429	16079	15735	15392	15051	14713	14377
67	17867	18207	17159	16795	16433	16083	15739	15396	15055	14717	14381
68	17871	18211	17163	16799	16437	16087	15743	15400	15059	14721	14385
69	17875	18215	17167	16803	16441	16091	15747	15404	15063	14725	14389
70	17879	18219	17171	16807	16445	16095	15751	15408	15067	14729	14393
71	17883	18223	17175	16811	16449	16099	15755	15412	15071	14733	14397
72	17887	18227	17179	16815	16453	16103	15759	15416	15075	14737	14401
73	17891	18231	17183	16819	16457	16107	15763	15420	15079	14741	14405
74	17895	18235	17187	16823	16461	16111	15767	15424	15083	14745	14409
75	17899	18239	17191	16827	16465	16115	15771	15428	15087	14749	14413
76	17903	18243	17195	16831	16469	16119	15775	15432	15091	14753	14417
77	17907	18247	17199	16835	16473	16123	15779	15436	15095	14757	14421
78	17911	18251	17203	16839	16477	16127	15783	15440	15099	14761	14425
79	17915	18255	17207	16843	16481	16131	15787	15444	15103	14765	14429
80	17919	18259	17211	16847	16485	16135	15791	15448	15107	14769	14433
81	17923	18263	17215	16851	16489	16139	15795	15452	15111	14773	14437
82	17927	18267	17219	16855	16493	16143	15799	15456	15115	14777	14441
83	17931	18271	17223	16859	16497	16147	15803	15460	15119	14781	14445
84	17935	18275	17227	16863	16501	16151	15807	15464	15123	14785	14449
85	17939	18279	17231	16867	16505	16155	15811	15468	15127	14789	14453
86	17943	18283	17235	16871	16509	16159	15815	15472	15131	14793	14457
87	17947	18287	17239	16875	16513	16163	15819	15476	15135	14797	14461
88	17951	18291	17243	16879	16517	16167	15823	15480	15139	14801	14465
89	17955	18295	17247	16883	16521	16171	15827	15484	15143	14805	14469
90	17959	18299	17251	16887	16525	16175	15831	15488	15147	14809	14473
91	17963	18303	17255	16891	16529	16179	15835	15492	15151	14813	14477
92	17967	18307	17259	16895	16533	16183	15839	15496	15155	14817	14481
93	17971	18311	17263	16899	16537	16187	15843	15500	15159	14821	14485
94	17975	18315	17267	16903	16541	16191	15847	15504	15163	14825	14489
95	17979	18319	17271	16907	16545	16195	15851	15508	15167	14829	14493
96	17983	18323	17275	16911	16549	16199	15855	15512	15171	14833	14497
97	17987	18327	17279	16915	16553	16203	15859	15516	15175	14837	14501
98	17991	18331	17283	16919	16557	16207	15863	15520	15179	14841	14505
99	17995										

2 Degrees, or 2 Hours.													
"	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'
0	13470	13142	12817	12494	12173	11855	11539	11225	10914	10605	10298	9994	9694
1	13464	13137	12811	12489	12168	11850	11534	11221	10909	10600	10293	9989	9689
2	13459	13131	12806	12483	12163	11845	11529	11215	10904	10595	10288	9984	9684
3	13453	13125	12801	12478	12157	11839	11524	11210	10899	10590	10283	9979	9679
4	13448	13120	12795	12472	12152	11834	11518	11205	10894	10585	10278	9973	9673
5	13442	13115	12790	12467	12147	11829	11513	11200	10889	10580	10273	9968	9668
6	13437	13109	12784	12463	12141	11824	11508	11195	10883	10575	10268	9963	9663
7	13431	13104	12779	12458	12136	11818	11503	11189	10878	10569	10263	9958	9658
8	13426	13099	12774	12451	12131	11813	11497	11184	10873	10564	10258	9953	9653
9	13421	13093	12768	12446	12125	11808	11492	11179	10868	10559	10253	9948	9648
10	13415	13088	12763	12440	12120	11802	11487	11174	10863	10554	10247	9943	9643
11	13410	13082	12757	12435	12115	11797	11482	11169	10858	10549	10242	9938	9638
12	13404	13077	12753	12430	12110	11792	11476	11163	10853	10544	10237	9933	9633
13	13399	13071	12747	12424	12104	11787	11471	11158	10847	10539	10232	9928	9628
14	13393	13066	12741	12419	12099	11781	11466	11153	10842	10534	10227	9923	9623
15	13388	13061	12736	12414	12094	11776	11461	11148	10837	10529	10222	9918	9618
16	13382	13055	12730	12408	12088	11771	11456	11143	10832	10523	10217	9913	9613
17	13377	13050	12725	12403	12083	11765	11450	11137	10827	10518	10212	9908	9608
18	13371	13044	12720	12397	12078	11760	11445	11132	10821	10513	10207	9903	9603
19	13366	13039	12714	12392	12072	11755	11440	11127	10816	10508	10202	9899	9599
20	13360	13033	12709	12387	12067	11750	11435	11122	10811	10503	10197	9893	9593
21	13355	13028	12703	12381	12062	11744	11429	11117	10806	10498	10192	9887	9587
22	13349	13023	12698	12376	12056	11739	11424	11111	10801	10493	10186	9883	9583
23	13344	13017	12693	12371	12051	11734	11419	11106	10796	10487	10181	9877	9577
24	13338	13012	12687	12365	12046	11729	11414	11101	10791	10482	10176	9872	9572
25	13333	13006	12682	12360	12041	11723	11408	11096	10785	10477	10171	9867	9567
26	13328	13001	12677	12355	12035	11718	11403	11091	10780	10472	10166	9863	9563
27	13322	12995	12671	12349	12030	11713	11398	11085	10775	10467	10161	9857	9557
28	13317	12990	12666	12344	12025	11708	11393	11080	10770	10462	10156	9852	9552
29	13311	12985	12660	12339	12019	11702	11387	11075	10765	10457	10151	9847	9547
30	13306	12979	12655	12333	12014	11697	11382	11070	10760	10452	10146	9843	9543
31	13300	12974	12650	12328	12009	11692	11377	11065	10750	10446	10141	9837	9537
32	13295	12968	12644	12323	12003	11686	11372	11059	10749	10441	10136	9832	9532
33	13289	12963	12639	12317	11998	11681	11367	11054	10744	10436	10131	9827	9527
34	13284	12957	12634	12312	11993	11676	11361	11049	10739	10431	10126	9822	9522
35	13278	12952	12628	12307	11987	11671	11356	11044	10734	10426	10120	9817	9517
36	13273	12947	12623	12301	11982	11665	11351	11039	10729	10421	10115	9812	9512
37	13267	12941	12617	12296	11977	11660	11346	11034	10724	10416	10110	9807	9507
38	13262	12936	12612	12291	11972	11655	11340	11029	10718	10411	10105	9802	9502
39	13257	12930	12607	12285	11966	11650	11335	11023	10713	10406	10100	9797	9497
40	13251	12925	12601	12280	11961	11644	11330	11018	10708	10400	10095	9792	9492
41	13246	12920	12596	12275	11956	11639	11325	11013	10703	10395	10090	9787	9487
42	13240	12914	12590	12269	11950	11634	11320	11008	10698	10390	10085	9782	9482
43	13235	12909	12585	12264	11945	11629	11314	11003	10693	10385	10080	9777	9477
44	13229	12903	12580	12259	11940	11623	11309	10997	10688	10380	10075	9772	9472
45	13224	12898	12574	12253	11935	11618	11304	10992	10682	10375	10070	9768	9468
46	13218	12893	12569	12248	11929	11613	11299	10987	10677	10370	10065	9763	9463
47	13213	12887	12564	12243	11924	11608	11294	10982	10672	10365	10060	9758	9458
48	13207	12882	12558	12237	11919	11602	11288	10977	10667	10360	10054	9753	9453
49	13202	12876	12553	12232	11913	11597	11283	10971	10662	10355	10049	9748	9448
50	13197	12871	12548	12227	11908	11592	11278	10966	10657	10349	10044	9743	9443
51	13191	12865	12542	12221	11903	11587	11273	10961	10652	10344	10039	9738	9438
52	13186	12860	12537	12216	11897	11581	11267	10956	10646	10339	10034	9733	9433
53	13180	12855	12531	12211	11892	11576	11262	10951	10641	10334	10029	9728	9428
54	13175	12849	12526	12205	11887	11571	11257	10945	10636	10329	10024	9723	9423
55	13169	12844	12521	12200	11882	11566	11252	10940	10631	10324	10019	9718	9418
56	13164	12838	12515	12195	11876	11560	11247	10935	10626	10319	10014	9713	9413
57	13158	12833	12510	12189	11871	11555	11241	10930	10621	10314	10009	9708	9408
58	13153	12828	12505	12184	11866	11550	11236	10925	10616	10309	10004	9703	9403
59	13148	12822	12499	12179	11860	11545	11231	10920	10610	10304	9999	9698	9400

* 3 Degrees, or 2 Hours.													
"	24'	25'	26'	27'	28'	29'	30'	31'	32'	33'	34'	35'	
0	00691	00390	00092	00796	00501	00209	07018	07630	07343	07058	06773	06484	
1	00686	00385	00087	00791	00496	00204	07013	07625	07338	07053	06770	06489	
2	00681	00380	00082	00786	00491	00199	07008	07620	07333	07049	06766	06485	
3	00676	00375	00077	00781	00486	00194	07004	07615	07329	07044	06761	06480	
4	00671	00370	00072	00776	00482	00189	07000	07610	07324	07039	06756	06475	
5	00666	00365	00067	00771	00477	00184	07004	07606	07319	07034	06752	06471	
6	00661	00361	00062	00766	00472	00179	07000	07601	07314	07030	06747	06466	
7	00656	00356	00057	00761	00467	00175	07004	07596	07310	07025	06742	06461	
8	00651	00351	00052	00756	00462	00170	07000	07591	07305	07020	06738	06457	
9	00646	00346	00047	00751	00457	00165	07005	07586	07300	07016	06733	06452	
10	00641	00341	00042	00746	00452	00160	07005	07582	07295	07011	06728	06447	
11	00636	00336	00037	00741	00447	00155	07005	07577	07291	07006	06724	06443	
12	00631	00331	00033	00736	00442	00150	07005	07572	07286	07001	06719	06438	
13	00626	00326	00028	00732	00438	00145	07005	07567	07281	06997	06714	06433	
14	00621	00321	00023	00727	00433	00141	07005	07562	07276	06992	06709	06429	
15	00616	00316	00018	00722	00428	00136	07005	07558	07272	06987	06705	06424	
16	00611	00311	00013	00717	00423	00131	07005	07553	07267	06982	06700	06419	
17	00606	00306	00008	00712	00418	00126	07005	07548	07262	06978	06695	06415	
18	00601	00301	00003	00707	00413	00121	07005	07543	07257	06973	06691	06410	
19	00596	00296	00000	00702	00408	00116	07005	07538	07253	06968	06686	06406	
20	00591	00291	00003	00697	00403	00112	07005	07534	07248	06964	06681	06401	
21	00586	00286	00000	00692	00398	00107	07005	07529	07243	06959	06677	06396	
22	00581	00281	00000	00687	00394	00102	07005	07524	07238	06954	06672	06391	
23	00576	00276	00000	00682	00389	00097	07005	07519	07234	06949	06667	06387	
24	00571	00271	00000	00678	00384	00092	07005	07515	07229	06945	06663	06383	
25	00566	00266	00000	00673	00379	00087	07005	07510	07224	06940	06658	06379	
26	00561	00261	00000	00668	00374	00083	07005	07505	07219	06935	06653	06375	
27	00556	00256	00000	00663	00369	00078	07005	07500	07215	06931	06648	06368	
28	00551	00251	00000	00658	00364	00073	07005	07496	07210	06926	06644	06364	
29	00545	00245	00000	00653	00359	00068	07005	07491	07205	06921	06639	06359	
30	00540	00241	00000	00648	00355	00063	07005	07486	07200	06916	06634	06354	
31	00535	00236	00000	00643	00350	00058	07005	07481	07196	06912	06630	06350	
32	00530	00231	00000	00638	00345	00053	07005	07476	07191	06907	06625	06345	
33	00525	00226	00000	00633	00340	00049	07005	07472	07186	06902	06620	06340	
34	00520	00221	00000	00628	00335	00044	07005	07467	07181	06898	06616	06336	
35	00515	00216	00000	00624	00330	00039	07005	07462	07177	06893	06611	06331	
36	00510	00211	00000	00619	00325	00034	07005	07458	07172	06888	06606	06326	
37	00505	00206	00000	00614	00320	00029	07005	07453	07167	06883	06602	06322	
38	00500	00201	00000	00609	00316	00024	07005	07448	07162	06879	06597	06317	
39	00495	00196	00000	00604	00311	00020	07005	07443	07158	06874	06592	06312	
40	00490	00191	00000	00599	00306	00015	07005	07438	07153	06869	06588	06308	
41	00485	00186	00000	00594	00301	00010	07005	07433	07148	06865	06583	06303	
42	00480	00181	00000	00589	00296	00005	07005	07428	07143	06860	06578	06298	
43	00475	00176	00000	00584	00291	00000	07005	07424	07139	06855	06574	06294	
44	00470	00171	00000	00579	00286	00000	07005	07419	07134	06850	06569	06289	
45	00465	00166	00000	00575	00282	00000	07005	07414	07129	06846	06565	06284	
46	00460	00161	00000	00570	00277	00000	07005	07409	07124	06841	06560	06280	
47	00455	00156	00000	00565	00272	00000	07005	07405	07120	06836	06555	06275	
48	00450	00151	00000	00560	00267	00000	07005	07400	07115	06832	06551	06271	
49	00445	00147	00000	00555	00262	00000	07005	07395	07110	06827	06546	06266	
50	00440	00142	00000	00550	00257	00000	07005	07390	07105	06822	06541	06261	
51	00435	00137	00000	00545	00252	00000	07005	07386	07101	06817	06536	06257	
52	00430	00132	00000	00540	00248	00000	07005	07381	07096	06813	06531	06252	
53	00425	00127	00000	00535	00243	00000	07005	07376	07091	06808	06526	06247	
54	00420	00122	00000	00530	00238	00000	07005	07371	07087	06803	06522	06243	
55	00415	00117	00000	00525	00233	00000	07005	07367	07082	06799	06517	06238	
56	00410	00112	00000	00521	00228	00000	07005	07362	07077	06794	06513	06233	
57	00405	00107	00000	00516	00223	00000	07005	07358	07073	06789	06508	06229	
58	00400	00102	00000	00511	00218	00000	07005	07353	07068	06785	06503	06224	
59	00395	00097	00000	00506	00213	00000	07005	07348	07063	06780	06499	06219	

2 Degrees, or 2 Hours.													
"	36'	37'	38'	39'	40'	41'	42'	43'	44'	45'	46'	47'	
0	05915	05937	05962	05988	05115	04845	04576	04308	04043	03779	03516	03250	
1	06910	05933	05957	05983	05111	04840	04571	04304	04039	03774	03512	03247	
2	06906	05929	05952	05978	05106	04836	04567	04300	04034	03770	03508	03243	
3	06901	05923	05946	05972	05102	04831	04562	04295	04030	03766	03503	03238	
4	06896	05919	05943	05969	05097	04827	04558	04291	04025	03761	03499	03234	
5	06892	05914	05938	05964	05093	04822	04553	04286	04021	03757	03495	03230	
6	06887	05910	05934	05960	05088	04818	04549	04282	04016	03753	03491	03226	
7	06882	05905	05929	05955	05084	04813	04544	04277	04012	03748	03486	03221	
8	06878	05900	05925	05951	05079	04809	04540	04273	04008	03744	03482	03217	
9	06873	05896	05920	05947	05075	04804	04536	04269	04003	03739	03477	03212	
10	06868	05891	05916	05942	05070	04800	04531	04264	03999	03735	03473	03208	
11	06864	05887	05911	05937	05066	04795	04527	04260	03994	03731	03469	03204	
12	06859	05882	05907	05933	05061	04791	04522	04255	03990	03726	03464	03200	
13	06855	05877	05902	05928	05056	04786	04518	04251	03986	03722	03460	03195	
14	06850	05873	05907	05932	05052	04782	04513	04246	03981	03717	03455	03191	
15	06845	05868	05903	05929	05047	04777	04509	04242	03977	03713	03451	03187	
16	06841	05864	05900	05926	05043	04773	04504	04237	03972	03709	03447	03183	
17	06836	05859	05894	05920	05038	04768	04500	04233	03968	03704	03442	03178	
18	06831	05854	05879	05906	05034	04764	04495	04229	03963	03700	03438	03174	
19	06827	05850	05875	05901	05029	04759	04491	04224	03959	03696	03434	03170	
20	06822	05845	05870	05897	05025	04755	04486	04220	03955	03691	03429	03166	
21	06817	05841	05866	05892	05020	04750	04482	04215	03950	03687	03425	03162	
22	06813	05836	05861	05888	05016	04746	04478	04211	03946	03682	03421	03158	
23	06808	05831	05856	05883	05011	04741	04473	04206	03941	03678	03416	03154	
24	06804	05827	05852	05878	05007	04737	04469	04202	03937	03674	03412	03150	
25	06800	05822	05847	05874	05002	04732	04464	04198	03933	03669	03408	03147	
26	06795	05818	05843	05870	04998	04728	04460	04193	03928	03665	03404	03143	
27	06790	05813	05838	05865	04993	04723	04455	04188	03924	03661	03400	03139	
28	06785	05808	05833	05860	04989	04719	04451	04184	03919	03656	03395	03134	
29	06780	05804	05829	05856	04984	04714	04446	04180	03915	03652	03390	03130	
30	06776	05799	05824	05851	04980	04710	04442	04175	03911	03647	03386	03126	
31	06771	05795	05820	05847	04975	04706	04437	04171	03906	03643	03381	03121	
32	06767	05790	05816	05842	04971	04701	04433	04167	03902	03639	03377	03117	
33	06762	05785	05811	05838	04966	04697	04429	04162	03897	03634	03373	03113	
34	06757	05781	05806	05833	04962	04692	04424	04158	03893	03630	03368	03108	
35	06753	05776	05801	05828	04957	04688	04420	04153	03888	03626	03364	03104	
36	06748	05772	05797	05824	04953	04683	04415	04149	03884	03621	03360	03100	
37	06743	05767	05792	05819	04948	04679	04411	04144	03880	03617	03355	03096	
38	06739	05762	05787	05814	04944	04674	04406	04140	03875	03612	03351	03091	
39	06734	05758	05783	05810	04939	04670	04402	04136	03871	03608	03347	03087	
40	06730	05753	05779	05806	04935	04665	04397	04131	03867	03604	03343	03083	
41	06725	05749	05774	05801	04930	04661	04393	04127	03862	03600	03338	03078	
42	06720	05744	05770	05797	04926	04656	04388	04122	03858	03595	03334	03074	
43	06716	05739	05765	05792	04921	04652	04384	04118	03853	03591	03329	03070	
44	06711	05735	05760	05788	04917	04647	04380	04114	03849	03586	03325	03066	
45	06706	05730	05756	05783	04912	04643	04375	04109	03845	03582	03321	03061	
46	06702	05726	05751	05779	04908	04638	04371	04105	03840	03578	03316	03057	
47	06697	05721	05747	05774	04903	04634	04366	04100	03836	03573	03312	03053	
48	06693	05717	05742	05770	04899	04629	04362	04096	03832	03569	03308	03048	
49	06688	05712	05738	05765	04894	04625	04357	04091	03827	03564	03303	03044	
50	06683	05707	05733	05761	04890	04620	04353	04087	03823	03560	03299	03039	
51	06679	05703	05729	05756	04885	04616	04348	04083	03818	03556	03295	03035	
52	06674	05698	05724	05751	04881	04612	04344	04078	03814	03551	03290	03031	
53	06670	05694	05720	05747	04876	04607	04340	04074	03810	03547	03286	03026	
54	06665	05689	05715	05742	04872	04603	04336	04069	03806	03543	03282	03022	
55	06660	05684	05710	05738	04867	04598	04331	04065	03801	03538	03277	03018	
56	06656	05680	05706	05733	04863	04594	04326	04061	03796	03534	03273	03014	
57	06651	05675	05701	05729	04858	04589	04322	04056	03792	03530	03269	03009	
58	06647	05671	05707	05734	04854	04585	04317	04052	03788	03525	03264	03006	
59	06642	05666	05702	05730	04849	04580	04313	04047	03783	03521	03260	03001	

2 Degrees, or 2 Hours.													
"	48'	49'	50'	51'	52'	53'	54'	55'	56'	57'	58'	59'	
0	09996	02739	02482	02228	01974	01723	01472	01223	00976	00730	00485	00242	
1	09999	02734	02478	02223	01970	01718	01468	01219	00972	00726	00481	00238	
2	09998	02730	02474	02219	01966	01714	01464	01215	00968	00722	00477	00234	
3	09993	02726	02470	02215	01962	01710	01460	01211	00964	00718	00473	00230	
4	09979	02721	02465	02211	01958	01706	01456	01207	00960	00714	00469	00226	
5	09975	02717	02461	02206	01953	01702	01452	01203	00955	00709	00465	00222	
6	09970	02713	02457	02202	01949	01698	01447	01199	00951	00705	00461	00218	
7	09966	02709	02453	02198	01945	01694	01443	01195	00947	00701	00457	00214	
8	09963	02704	02448	02194	01941	01689	01439	01190	00943	00697	00453	00210	
9	09958	02700	02444	02190	01937	01685	01435	01186	00939	00693	00449	00206	
10	09953	02696	02440	02185	01932	01681	01431	01182	00935	00689	00445	00202	
11	09949	02692	02436	02181	01928	01677	01427	01178	00931	00685	00441	00197	
12	09945	02687	02431	02177	01924	01673	01423	01174	00927	00681	00436	00193	
13	09940	02683	02427	02173	01920	01668	01418	01170	00923	00677	00432	00189	
14	09936	02679	02423	02168	01916	01664	01414	01166	00918	00673	00428	00185	
15	09932	02674	02419	02164	01911	01660	01410	01161	00914	00669	00424	00181	
16	09927	02670	02414	02160	01907	01656	01406	01157	00910	00665	00420	00177	
17	09923	02666	02410	02156	01903	01652	01402	01153	00906	00661	00416	00173	
18	09919	02662	02406	02152	01899	01647	01398	01149	00902	00656	00412	00169	
19	09915	02657	02402	02147	01895	01643	01393	01145	00898	00652	00408	00165	
20	09910	02653	02397	02143	01890	01639	01389	01141	00894	00648	00404	00161	
21	09906	02649	02393	02139	01886	01635	01385	01137	00890	00644	00400	00157	
22	09902	02644	02389	02135	01882	01631	01381	01133	00886	00640	00396	00153	
23	09897	02640	02385	02130	01878	01627	01377	01128	00881	00636	00392	00149	
24	09893	02636	02380	02126	01874	01622	01373	01124	00877	00632	00388	00145	
25	09889	02632	02376	02122	01869	01618	01368	01120	00873	00628	00384	00141	
26	09884	02627	02372	02118	01865	01614	01364	01116	00869	00624	00380	00137	
27	09880	02623	02368	02114	01861	01610	01360	01112	00865	00620	00376	00133	
28	09876	02619	02363	02109	01857	01606	01356	01108	00861	00616	00372	00129	
29	09872	02615	02359	02105	01853	01602	01352	01104	00857	00612	00368	00125	
30	09867	02610	02355	02101	01848	01597	01348	01100	00853	00607	00364	00121	
31	09863	02606	02351	02097	01844	01593	01344	01095	00849	00603	00360	00117	
32	09859	02602	02346	02093	01840	01589	01340	01091	00845	00600	00356	00113	
33	09854	02597	02342	02088	01836	01585	01335	01087	00840	00596	00352	00109	
34	09850	02593	02338	02084	01832	01581	01331	01083	00836	00592	00347	00105	
35	09846	02589	02334	02080	01827	01576	01327	01079	00832	00587	00343	00101	
36	09841	02585	02329	02076	01823	01572	01323	01075	00828	00583	00339	00097	
37	09837	02580	02325	02071	01819	01568	01319	01071	00824	00579	00335	00093	
38	09833	02576	02321	02067	01815	01564	01315	01067	00820	00575	00331	00089	
39	09829	02572	02317	02063	01811	01560	01310	01063	00816	00571	00327	00085	
40	09824	02568	02313	02059	01806	01556	01306	01058	00812	00567	00323	00080	
41	09820	02563	02308	02054	01802	01551	01302	01054	00808	00563	00319	00076	
42	09816	02559	02304	02050	01798	01547	01298	01050	00804	00559	00315	00072	
43	09811	02555	02300	02046	01794	01543	01294	01046	00799	00555	00311	00068	
44	09807	02551	02295	02042	01790	01539	01290	01042	00795	00550	00307	00064	
45	09803	02546	02291	02038	01785	01535	01286	01038	00791	00546	00303	00060	
46	09799	02542	02287	02033	01781	01531	01281	01034	00787	00542	00299	00056	
47	09794	02538	02283	02029	01777	01526	01277	01029	00783	00538	00295	00052	
48	09790	02533	02278	02025	01773	01522	01273	01025	00779	00534	00290	00048	
49	09786	02529	02274	02021	01769	01518	01269	01021	00775	00530	00286	00044	
50	09781	02525	02270	02017	01764	01514	01265	01017	00771	00526	00282	00040	
51	09777	02521	02266	02013	01760	01510	01261	01013	00767	00522	00278	00036	
52	09773	02516	02262	02008	01756	01506	01257	01009	00763	00518	00274	00032	
53	09769	02512	02257	02004	01752	01501	01253	01005	00759	00514	00270	00028	
54	09764	02508	02253	02000	01748	01497	01249	01001	00754	00510	00266	00024	
55	09760	02504	02249	01995	01744	01493	01244	00997	00750	00506	00262	00020	
56	09756	02500	02245	01991	01739	01489	01240	00993	00746	00502	00258	00016	
57	09751	02496	02240	01987	01735	01485	01236	00988	00742	00498	00254	00012	
58	09747	02491	02236	01983	01731	01481	01232	00984	00738	00494	00250	00008	
59	09743	02487	02232	01979	01727	01476	01228	00980	00734	00490	00246	00004	

M. or S.	II. or Min. 0	H. or Min. 1	H. or Min. 2	H. or Min. 3	H. or Min. 4	H. or Min. 5	H. or Min. 6	H. or Min. 7	H. or Min. 8	H. or Min. 9	H. or Min. 10	H. or Min. 11
0	3-18435	1-38021	1-07918	90309	77815	68124	60206	53511	47712	42587	38091	33882
1	3-15537	1-37303	1-07558	90069	77035	67980	60086	53408	47622	42517	37949	33816
2	3-15733	1-36597	1-07800	89829	77455	67836	59966	53305	47539	42436	37877	33761
3	3-16124	1-35902	1-08346	89591	77276	67692	59846	53092	47442	42356	37805	33685
4	3-15530	1-35218	1-08494	89355	77087	67549	59796	53110	47352	42276	37733	33620
5	3-15030	1-34545	1-08145	89119	76820	67406	59617	52907	47263	42197	37661	33554
6	3-14021	1-33892	1-07799	88885	76743	67264	59488	52865	47173	42117	37589	33489
7	3-13127	1-33220	1-08456	88652	76547	67123	59370	52704	47083	42038	37510	33424
8	3-12527	1-32545	1-08115	88421	76391	66981	59252	52592	46994	41950	37446	33359
9	3-12042	1-31951	1-07777	88190	76216	66841	59134	52491	46905	41879	37375	33294
10	3-11536	1-31327	1-08442	87961	76042	66700	59016	52400	46817	41800	37303	33229
11	3-11097	1-30711	1-08109	87733	75869	66560	58898	52309	46728	41721	37229	33164
12	3-10718	1-30103	1-08779	87506	75696	66421	58782	52209	46640	41642	37161	33099
13	3-10443	1-29504	1-08451	87281	75524	66280	58635	52109	46552	41564	37090	33035
14	3-10124	1-28913	1-08126	87056	75353	66143	58549	52007	46464	41485	37020	32970
15	3-98927	1-28300	1-08803	86833	75182	66005	58433	51907	46376	41407	36949	32906
16	3-98424	1-27755	1-08481	86611	75012	65868	58318	51808	46288	41329	36878	32842
17	3-97791	1-27167	1-08164	86390	74843	65730	58202	51709	46201	41251	36808	32778
18	3-96904	1-26627	1-08848	86170	74674	65594	58087	51608	46113	41173	36738	32713
19	3-96161	1-26054	1-08531	85951	74506	65457	57972	51509	46026	41095	36667	32649
20	3-95733	1-25537	1-08204	85733	74339	65321	57858	51401	45939	41018	36597	32585
21	3-95071	1-24980	1-08894	85517	74172	65185	57744	51303	45853	40940	36527	32522
22	3-94591	1-24455	1-08569	85301	74006	65051	57630	51204	45766	40863	36457	32458
23	3-93941	1-23920	1-08250	85087	73841	64916	57516	51106	45680	40786	36387	32394
24	3-93401	1-23401	1-08938	84877	73676	64782	57403	51008	45593	40708	36317	32331
25	3-92842	1-22881	1-08610	84661	73512	64648	57290	50909	45507	40630	36247	32267
26	3-92433	1-22377	1-08284	84450	73348	64514	57178	50809	45421	40553	36179	32204
27	3-91904	1-21884	1-08960	84239	73184	64381	57067	50709	45335	40475	36110	32141
28	3-91421	1-21398	1-08640	84030	73021	64248	56956	50609	45249	40400	36040	32078
29	3-90977	1-20927	1-08316	83822	72857	64115	56845	50509	45163	40321	35971	32014
30	3-90514	1-20412	1-08992	83614	72694	63982	56734	50409	45077	40243	35902	31951
31	3-90070	1-19902	1-08669	83406	72531	63850	56623	50309	44991	40165	35833	31889
32	3-89621	1-19458	1-08346	83199	72368	63717	56512	50209	44905	40087	35764	31826
33	3-89194	1-18980	1-08997	82991	72205	63584	56401	50109	44819	40009	35695	31763
34	3-88708	1-18524	1-08674	82785	72042	63452	56290	50009	44733	39934	35627	31700
35	3-88243	1-18064	1-08351	82581	71879	63319	56179	49909	44647	39859	35559	31638
36	3-87800	1-17619	1-08994	82379	71716	63186	56068	49809	44561	39784	35491	31575
37	3-87301	1-17159	1-08674	82180	71553	63053	55957	49709	44475	39710	35422	31513
38	3-86838	1-16714	1-08351	81991	71390	62920	55846	49609	44389	39635	35354	31451
39	3-86370	1-16273	1-08997	81792	71227	62787	55735	49509	44303	39560	35286	31389
40	3-85930	1-15836	1-08674	81594	71064	62654	55624	49409	44217	39485	35218	31327
41	3-85488	1-15404	1-08351	81397	70900	62521	55513	49309	44131	39410	35151	31265
42	3-85111	1-14976	1-08994	81201	70737	62388	55402	49209	44045	39335	35083	31203
43	3-84690	1-14554	1-08674	81006	70574	62255	55291	49109	43959	39260	35015	31141
44	3-84249	1-14123	1-08351	80812	70411	62122	55180	49009	43873	39185	34948	31079
45	3-83815	1-13717	1-08994	80618	70248	62000	55069	48909	43787	39110	34880	31017
46	3-83361	1-13306	1-08674	80426	70085	61867	54958	48809	43701	39035	34812	30955
47	3-82927	1-12898	1-08351	80234	70004	61734	54847	48709	43615	38960	34745	30893
48	3-82471	1-12484	1-08994	80043	69847	61601	54736	48609	43529	38885	34677	30831
49	3-82017	1-12084	1-08674	79853	69684	61468	54625	48509	43443	38810	34610	30770
50	3-81593	1-11667	1-08351	79664	69527	61335	54514	48409	43357	38735	34543	30710
51	3-81179	1-11304	1-08994	79475	69364	61202	54403	48309	43271	38660	34478	30649
52	3-80736	1-10915	1-08674	79286	69200	61069	54292	48209	43185	38585	34411	30588
53	3-80309	1-10529	1-08351	79101	69037	60936	54181	48109	43100	38510	34345	30527
54	3-79867	1-10146	1-08994	78915	68874	60803	54070	48009	43014	38435	34279	30467
55	3-79418	1-09767	1-08674	78730	68711	60670	53959	47909	42928	38360	34212	30406
56	3-78991	1-09391	1-08351	78545	68548	60537	53848	47809	42842	38285	34146	30345
57	3-78549	1-09018	1-08994	78360	68385	60404	53737	47709	42756	38210	34080	30284
58	3-78104	1-08648	1-08674	78175	68222	60271	53626	47609	42670	38135	34014	30224
59	3-77651	1-08269	1-08351	77990	68059	60138	53515	47509	42584	38060	33948	30163

M. or S.	H. or Min. 12	H. or Min. 13	H. or Min. 14	H. or Min. 15	H. or Min. 16	H. or Min. 17	H. or Min. 18	H. or Min. 19	H. or Min. 20	H. or Min. 21	H. or Min. 22	H. or Min. 23
0	30103	20827	23408	20412	17009	14070	13494	10140	07018	05799	03779	01848
1	30043	20871	23357	20354	17054	14034	13454	10108	7082	5765	3746	1817
2	29983	20816	23305	20316	17019	14001	13414	10070	7046	5730	3713	1786
3	29923	20760	23254	20268	17474	14040	13374	10032	7010	5696	3680	1754
4	29863	20705	23202	20220	17429	14006	13333	9994	7774	5662	3648	1723
5	29803	20649	23151	20173	17384	14764	12293	9956	7738	5627	3615	1691
6	29743	20594	23099	20124	17339	14722	12253	9918	7702	5593	3582	1660
7	29683	20539	23048	20076	17294	14679	12213	9880	7666	5559	3549	1629
8	29623	20484	22997	20028	17249	14637	12173	9842	7630	5524	3517	1597
9	29564	20429	22946	19980	17204	14595	12134	9804	7594	5490	3484	1566
10	29504	20374	22894	19932	17159	14553	12094	9767	7558	5456	3451	1535
11	29445	20319	22843	19885	17114	14511	12054	9729	7522	5422	3419	1504
12	29385	20264	22792	19837	17070	14468	12014	9691	7486	5388	3386	1472
13	29326	20209	22741	19789	17025	14426	11974	9653	7450	5354	3353	1441
14	29267	20154	22690	19742	16980	14384	11935	9616	7415	5319	3321	1410
15	29208	20099	22640	19694	16936	14342	11895	9578	7379	5285	3289	1379
16	29149	20044	22589	19647	16891	14300	11855	9541	7343	5251	3256	1348
17	29090	19989	22538	19600	16847	14258	11816	9503	7307	5217	3223	1317
18	29031	19934	22488	19552	16802	14217	11776	9466	7272	5183	3191	1286
19	28972	19879	22437	19505	16758	14175	11737	9428	7236	5149	3158	1255
20	28913	19824	22387	19458	16714	14133	11697	9391	7200	5115	3126	1224
21	28855	19769	22336	19410	16669	14091	11658	9353	7165	5081	3093	1193
22	28796	19714	22285	19363	16625	14050	11618	9316	7129	5048	3061	1162
23	28737	19659	22235	19316	16581	14008	11579	9278	7094	5014	3029	1131
24	28679	19604	22184	19269	16537	13966	11539	9241	7058	4980	2996	1100
25	28621	19549	22133	19222	16493	13925	11500	9204	7023	4946	2964	1069
26	28562	19494	22083	19175	16449	13883	11461	9167	6987	4912	2932	1038
27	28504	19439	22034	19128	16405	13842	11422	9129	6952	4879	2900	1007
28	28446	19384	21984	19082	16361	13800	11382	9092	6917	4845	2867	976
29	28388	19329	21934	19035	16317	13759	11343	9055	6881	4811	2835	945
30	28330	19274	21884	18988	16273	13717	11304	9018	6846	4777	2803	914
31	28272	19219	21835	18941	16229	13676	11265	8981	6811	4744	2771	884
32	28215	19164	21785	18895	16185	13635	11226	8944	6775	4710	2739	853
33	28157	19109	21735	18848	16141	13594	11187	8907	6740	4677	2707	822
34	28100	19054	21685	18802	16098	13552	11148	8870	6705	4643	2675	791
35	28042	18999	21636	18755	16054	13511	11109	8833	6670	4609	2642	761
36	27984	18944	21586	18709	16010	13470	11070	8796	6634	4576	2610	730
37	27927	18889	21536	18662	15967	13429	11031	8759	6599	4542	2578	699
38	27869	18834	21487	18616	15923	13388	10992	8722	6564	4509	2546	669
39	27812	18779	21437	18570	15880	13347	10953	8685	6529	4475	2514	638
40	27755	18724	21388	18524	15836	13306	10915	8648	6494	4442	2482	608
41	27698	18669	21339	18477	15793	13265	10876	8611	6459	4409	2451	577
42	27641	18614	21290	18431	15750	13224	10837	8575	6424	4375	2419	546
43	27584	18559	21240	18385	15706	13183	10798	8538	6389	4342	2387	516
44	27527	18504	21191	18339	15663	13142	10760	8501	6354	4309	2355	485
45	27470	18449	21142	18293	15620	13101	10721	8465	6319	4275	2323	455
46	27413	18394	21093	18247	15577	13061	10683	8428	6285	4242	2291	424
47	27357	18339	21044	18201	15533	13020	10644	8391	6250	4209	2260	394
48	27300	18284	20995	18156	15490	12979	10605	8355	6216	4176	2228	364
49	27244	18229	20946	18110	15447	12938	10567	8318	6180	4142	2196	333
50	27187	18174	20897	18064	15404	12896	10529	8282	6145	4109	2164	303
51	27132	18119	20848	18018	15361	12857	10490	8245	6111	4076	2133	272
52	27075	18064	20800	17973	15318	12817	10452	8209	6076	4043	2101	242
53	27018	18009	20751	17927	15275	12776	10413	8172	6041	4010	2069	212
54	26962	17954	20703	17882	15233	12736	10375	8136	6007	3977	2038	181
55	26906	17899	20654	17836	15190	12695	10337	8100	5972	3944	2006	151
56	26850	17844	20606	17791	15147	12655	10299	8063	5937	3911	1975	121
57	26794	17789	20557	17745	15104	12615	10260	8027	5903	3878	1943	91
58	26738	17734	20509	17700	15062	12574	10223	7991	5868	3845	1911	60
59	26683	17679	20460	17655	15019	12534	10184	7954	5834	3812	1880	30

Inter- val	Log. A.	Log. B.	Inter- val	Log. A.	Log. B.	Inter- val	Log. A.	Log. B.	Inter- val	Log. A.	Log. B.
H. M.			H. M.			H. M.			H. M.		
2 0	7 7297	7 7146	4 0	7 7117	7 6823	6 0	7 7703	7 6198	8 0	7 8072	7 5062
2	7298	7143	2	7451	6815	2	7708	6184	2	8079	5036
4	7300	7139	4	7454	6807	4	7713	6170	4	8086	5010
6	7302	7136	6	7458	6800	6	7719	6156	6	8094	4983
8	7304	7132	8	7461	6792	8	7724	6143	8	8101	4957
10	7305	7128	10	7464	6784	10	7729	6127	10	8108	4930
12	7307	7125	12	7468	6776	12	7735	6113	12	8116	4902
14	7309	7121	14	7472	6768	14	7740	6098	14	8123	4874
16	7311	7117	16	7475	6759	16	7745	6083	16	8130	4846
18	7313	7113	18	7479	6751	18	7751	6068	18	8138	4818
20	7315	7109	20	7482	6743	20	7756	6053	20	8145	4789
22	7317	7105	22	7486	6735	22	7762	6038	22	8153	4760
24	7319	7101	24	7490	6726	24	7767	6023	24	8160	4731
26	7321	7097	26	7494	6717	26	7773	6007	26	8168	4701
28	7323	7092	28	7497	6708	28	7779	5991	28	8176	4671
30	7325	7088	30	7501	6700	30	7784	5975	30	8183	4640
32	7327	7083	32	7505	6691	32	7790	5959	32	8191	4609
34	7329	7079	34	7509	6682	34	7796	5943	34	8199	4578
36	7331	7075	36	7513	6673	36	7801	5927	36	8206	4546
38	7333	7070	38	7517	6663	38	7807	5910	38	8214	4514
40	7336	7065	40	7521	6654	40	7813	5894	40	8222	4482
42	7338	7061	42	7525	6645	42	7819	5877	42	8230	4449
44	7340	7056	44	7529	6635	44	7825	5860	44	8238	4415
46	7342	7051	46	7533	6626	46	7831	5843	46	8246	4381
48	7345	7046	48	7537	6616	48	7836	5825	48	8254	4347
50	7347	7041	50	7541	6606	50	7842	5808	50	8262	4312
52	7349	7036	52	7545	6597	52	7848	5790	52	8270	4277
54	7352	7031	54	7549	6587	54	7854	5772	54	8278	4241
56	7354	7026	56	7553	6577	56	7860	5754	56	8286	4205
58	7357	7021	58	7557	6567	58	7867	5736	58	8294	4168
60	7359	7015	60	7562	6556	60	7873	5717	60	8302	4131
2	7362	7010	2	7566	6546	2	7879	5699	2	8311	4093
4	7364	7005	4	7570	6536	4	7885	5680	4	8319	4055
6	7367	6999	6	7575	6525	6	7891	5661	6	8328	4016
8	7369	6993	8	7579	6514	8	7898	5641	8	8336	3977
10	7372	6988	10	7583	6504	10	7904	5622	10	8344	3937
12	7374	6982	12	7588	6493	12	7910	5602	12	8353	3896
14	7377	6976	14	7592	6482	14	7916	5582	14	8361	3855
16	7380	6970	16	7597	6471	16	7923	5562	16	8370	3813
18	7383	6964	18	7601	6460	18	7929	5542	18	8378	3771
20	7386	6958	20	7606	6448	20	7936	5522	20	8387	3729
22	7388	6952	22	7610	6437	22	7942	5501	22	8396	3684
24	7391	6946	24	7615	6425	24	7949	5480	24	8404	3639
26	7394	6940	26	7620	6414	26	7955	5459	26	8413	3594
28	7397	6934	28	7624	6402	28	7962	5437	28	8422	3548
30	7400	6927	30	7629	6390	30	7969	5416	30	8430	3501
32	7403	6921	32	7634	6378	32	7975	5394	32	8439	3454
34	7406	6914	34	7638	6366	34	7982	5372	34	8448	3406
36	7409	6908	36	7643	6354	36	7989	5350	36	8457	3357
38	7412	6901	38	7648	6342	38	7995	5327	38	8466	3307
40	7415	6894	40	7653	6329	40	8002	5304	40	8475	3256
42	7418	6888	42	7658	6317	42	8009	5281	42	8484	3205
44	7421	6881	44	7663	6304	44	8016	5258	44	8493	3152
46	7424	6874	46	7668	6291	46	8023	5234	46	8502	3099
48	7428	6867	48	7673	6278	48	8030	5211	48	8511	3045
50	7431	6859	50	7678	6265	50	8037	5186	50	8520	2989
52	7434	6852	52	7683	6252	52	8044	5162	52	8529	2933
54	7437	6845	54	7688	6239	54	8051	5137	54	8539	2876
56	7441	6838	56	7693	6225	56	8058	5112	56	8548	2817
58	7444	6830	58	7698	6212	58	8065	5087	58	8558	2758
60	7 7447	7 6823	60	7 7703	7 6198	60	7 8072	7 5062	60	7 8647	7 2667

DECLINATIONS.

Lat.	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°
1°	1° 0'	2° 0'	3° 0'	4° 0'	5° 0'	6° 0'	7° 0'	8° 0'	9° 0'	10° 0'	11° 0'	12° 0'
2	1 0	2 0	3 0	4 0	5 0	6 0	7 0	8 0	9 0	10 0	11 0	12 0
3	1 0	2 0	3 0	4 0	5 0	6 0	7 1	8 1	9 1	10 1	11 1	12 1
4	1 0	2 0	3 0	4 1	5 1	6 1	7 1	8 1	9 1	10 1	11 2	12 2
5	1 0	2 0	3 1	4 1	5 1	6 1	7 2	8 2	9 2	10 2	11 3	12 3
6	1 0	2 1	3 1	4 1	5 2	6 2	7 2	8 2	9 2	10 2	11 4	12 4
7	1 0	2 1	3 1	4 2	5 2	6 3	7 3	8 4	9 4	10 3	11 5	12 5
8	1 1	2 1	3 2	4 2	5 3	6 4	7 4	8 5	9 5	10 6	11 7	12 7
9	1 1	2 1	3 2	4 3	5 4	6 5	7 5	8 6	9 7	10 8	11 8	12 9
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11	1 1	2 2	3 3	4 4	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 14
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14	1 2	3 4	3 6	4 7	5 9	6 11	7 13	8 15	9 17	10 19	11 20	12 22
15	1 2	3 4	3 6	4 8	5 11	6 13	7 15	8 17	9 19	10 21	11 24	12 26
16	1 2	3 5	3 7	4 10	5 12	6 15	7 17	8 19	9 22	10 24	11 27	12 29
17	1 3	3 5	3 8	4 11	5 14	6 17	7 19	8 22	9 25	10 28	11 31	12 33
18	1 3	3 6	3 9	4 12	5 15	6 19	7 22	8 25	9 28	10 31	11 34	12 38
19	1 3	3 7	3 10	4 14	5 17	6 21	7 24	8 28	9 31	10 35	11 39	12 42
20	1 4	3 8	3 12	4 15	5 19	6 23	7 27	8 31	9 35	10 39	11 43	12 47
21	1 4	3 9	3 13	4 17	5 21	6 26	7 30	8 34	9 39	10 43	11 48	12 52
22	1 5	3 9	3 14	4 19	5 24	6 28	7 33	8 38	9 43	10 48	11 53	12 57
23	1 5	3 10	3 16	4 21	5 26	6 31	7 36	8 42	9 47	10 52	11 58	13 3
24	1 6	3 11	3 17	4 23	5 28	6 34	7 40	8 46	9 52	10 57	12 3	13 9
25	1 6	3 12	3 19	4 25	5 31	6 37	7 44	8 50	9 56	11 3	12 9	13 16
26	1 7	3 14	3 20	4 27	5 34	6 41	7 48	8 54	10 1	11 8	12 15	13 22
27	1 7	3 15	3 22	4 29	5 37	6 44	7 52	8 59	10 7	11 14	12 22	13 30
28	1 8	3 16	3 24	4 32	5 40	6 48	7 56	9 4	10 13	11 21	12 29	13 37
29	1 9	3 17	3 26	4 34	5 43	6 52	8 1	9 9	10 18	11 27	12 36	13 45
30	1 9	3 19	3 28	4 37	5 47	6 56	8 5	9 15	10 24	11 34	12 44	13 53
31	1 10	3 20	3 30	4 40	5 50	7 0	8 10	9 21	10 31	11 41	12 52	14 3
32	1 11	3 22	3 32	4 43	5 54	7 5	8 16	9 27	10 38	11 49	13 0	14 11
33	1 12	3 23	3 35	4 46	5 58	7 10	8 21	9 33	10 45	11 57	13 9	14 21
34	1 12	3 25	3 37	4 50	6 2	7 15	8 27	9 40	10 53	12 5	13 18	14 31
35	1 13	3 27	3 40	4 53	6 6	7 20	8 33	9 47	11 1	12 14	13 28	14 42
36	1 14	3 28	3 43	4 57	6 11	7 25	8 40	9 54	11 9	12 24	13 39	14 54
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38	1 16	3 32	3 48	5 5	6 21	7 37	8 54	10 10	11 27	12 44	14 1	15 18
39	1 17	3 34	3 52	5 9	6 26	7 44	9 1	10 19	11 37	12 55	14 13	15 31
40	1 18	3 37	3 55	5 13	6 32	7 51	9 9	10 28	11 47	13 6	14 25	15 45
41	1 20	3 39	3 59	5 18	6 38	7 58	9 18	10 38	11 58	13 18	14 39	15 59
42	1 21	3 42	4 2	5 23	6 44	8 5	9 26	10 48	12 9	13 31	14 53	16 15
43	1 22	3 44	4 6	5 28	6 51	8 13	9 36	10 58	12 21	13 44	15 7	16 31
44	1 23	3 47	4 10	5 31	6 58	8 21	9 45	11 9	12 34	13 58	15 23	16 48
45	1 25	3 50	4 15	5 40	7 5	8 30	9 55	11 21	12 47	14 18	15 39	17 6
46	1 26	3 53	4 19	5 46	7 13	8 39	10 6	11 33	13 1	14 29	15 57	17 25
47	1 28	3 56	4 24	5 52	7 21	8 49	10 18	11 46	13 16	14 45	16 15	17 45
48	1 30	3 59	4 29	5 59	7 29	8 59	10 30	12 0	13 31	15 2	16 34	18 6
49	1 31	3 3	4 35	6 6	7 38	9 10	10 42	12 15	13 48	15 21	16 54	18 29
50	1 33	3 7	4 40	6 14	7 48	9 22	10 56	12 30	14 5	15 40	17 16	18 52
51	1 35	3 11	4 46	6 22	7 58	9 34	11 10	12 47	14 24	16 1	17 39	19 17
52	1 37	3 15	4 53	6 30	8 8	9 47	11 25	13 4	14 43	16 23	18 8	19 44
53	1 40	3 19	4 59	6 39	8 20	10 0	11 41	13 22	15 4	16 46	18 20	20 13
54	1 42	3 24	5 7	6 49	8 32	10 15	11 58	13 42	15 26	17 11	18 57	20 43
55	1 45	3 29	5 14	6 59	8 44	10 30	12 16	14 3	15 50	17 37	19 27	21 15
56	1 47	3 35	5 22	7 10	8 58	10 46	12 35	14 25	16 15	18 5	19 57	21 50
57	1 50	3 40	5 31	7 23	9 13	11 4	13 50	14 48	16 43	18 36	20 30	22 36
58	1 53	3 47	5 40	7 34	9 28	11 23	13 18	15 14	17 10	19 8	21 6	23 6
59	1 57	3 53	5 50	7 47	9 45	11 43	13 41	15 41	17 41	19 42	21 45	23 49
60	2 0	4 0	6 0	8 1	10 2	12 4	14 6	16 10	18 14	20 19	22 26	24 34
61	2 4	4 8	6 13	8 16	10 21	12 27	14 34	16 41	18 49	20 59	23 11	25 24
62	2 8	4 16	6 24	8 33	10 42	12 52	15 3	17 15	19 28	21 42	23 59	26 17
63	2 12	4 25	6 37	8 50	11 4	13 19	15 24	17 51	20 9	22 29	24 51	27 15
64	2 17	4 34	6 51	9 9	11 28	13 48	16 8	18 31	20 54	23 20	25 48	28 19
65	2 22	4 44	7 7	9 30	11 54	14 19	16 46	19 14	21 44	24 16	26 50	29 28
66	2 28	4 55	7 24	9 53	12 23	14 54	17 26	20 1	22 37	25 16	27 59	30 48

		DECLINATIONS.															
Lat.	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	25°	26°	27°	28°	29°
1°	13° 0'	14° 0'	15° 0'	16° 0'	17° 0'	18° 0'	19° 0'	20° 0'	21° 0'	22° 0'	23° 0'	24° 0'	25° 0'	26° 0'	27° 0'	28° 0'	29° 0'
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3	13 1	14 1	15 1	16 1	17 1	18 2	19 2	20 2	21 2	22 2	23 2	24 2	25 2	26 2	27 2	28 2	29 2
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66	14 4	15 4	16 4	17 4	18 4	19 4	20 4	21 4	22 4	23 4	24 4	25 4	26 4	27 4	28 4	29 4	30 4

**A TABLE shewing the time of the Sun's setting, when the latitude
when the latitude and declination**

DECLINATION.																											
Lat.	0°		1°		2°		3°		4°		5°		6°		7°		8°		9°		10°		11°		12°		
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	
1°	6	00	6	00	6	00	6	00	6	01	6	01	6	01	6	01	6	01	6	01	6	01	6	01	6	01	
2	6	00	6	00	6	00	6	00	6	01	6	01	6	01	6	01	6	01	6	01	6	02	6	02	6	02	
3	6	00	6	00	6	00	6	01	6	01	6	01	6	01	6	02	6	02	6	02	6	03	6	03	6	03	
4	6	00	6	00	6	00	6	01	6	01	6	01	6	02	6	02	6	03	6	03	6	04	6	04	6	04	
5	6	00	6	00	6	01	6	01	6	01	6	02	6	02	6	02	6	03	6	03	6	04	6	05	6	05	
6	6	00	6	00	6	01	6	01	6	01	6	02	6	02	6	03	6	03	6	04	6	05	6	06	6	06	
7	6	00	6	01	6	01	6	02	6	02	6	03	6	03	6	04	6	04	6	05	6	06	6	07	6	07	
8	6	00	6	01	6	01	6	02	6	03	6	03	6	04	6	05	6	05	6	06	6	07	6	08	6	08	
9	6	00	6	01	6	01	6	02	6	03	6	04	6	05	6	06	6	06	6	07	6	08	6	09	6	09	
10	6	00	6	01	6	02	6	02	6	03	6	04	6	05	6	06	6	07	6	08	6	09	6	10	6	10	
11	6	00	6	01	6	02	6	03	6	03	6	04	6	05	6	06	6	07	6	08	6	09	6	10	6	11	
12	6	00	6	01	6	02	6	03	6	04	6	05	6	06	6	07	6	08	6	09	6	10	6	11	6	12	
13	6	00	6	01	6	02	6	03	6	04	6	05	6	06	6	07	6	08	6	09	6	10	6	11	6	13	
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15	6	00	6	01	6	02	6	03	6	04	6	05	6	06	6	07	6	08	6	09	6	10	6	12	6	15	
16	6	00	6	01	6	02	6	04	6	05	6	05	6	06	6	07	6	08	6	09	6	10	6	12	6	16	
17	6	00	6	01	6	02	6	04	6	05	6	06	6	07	6	08	6	10	6	11	6	12	6	13	6	17	
18	6	00	6	01	6	03	6	04	6	05	6	07	6	08	6	09	6	11	6	12	6	13	6	14	6	18	
19	6	00	6	01	6	03	6	04	6	06	6	07	6	08	6	10	6	11	6	12	6	13	6	15	6	19	
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21	6	00	6	02	6	03	6	05	6	06	6	08	6	10	6	11	6	13	6	14	6	15	6	17	6	21	
22	6	00	6	02	6	03	6	05	6	06	6	08	6	10	6	12	6	14	6	15	6	16	6	18	6	22	
23	6	00	6	02	6	03	6	05	6	07	6	09	6	11	6	13	6	14	6	16	6	17	6	19	6	23	
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26	6	00	6	02	6	04	6	06	6	08	6	10	6	12	6	14	6	16	6	18	6	20	6	22	6	26	
27	6	00	6	02	6	04	6	06	6	08	6	10	6	12	6	14	6	16	6	19	6	21	6	23	6	27	
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29	6	00	6	02	6	04	6	07	6	09	6	11	6	13	6	16	6	18	6	20	6	22	6	25	6	29	
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31	6	00	6	02	6	05	6	08	6	10	6	13	6	15	6	18	6	20	6	22	6	24	6	27	6	30	
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36	6	00	6	03	6	06	6	09	6	12	6	15	6	18	6	21	6	24	6	27	6	31	6	34	6	37	
37	6	00	6	03	6	06	6	09	6	13	6	16	6	19	6	22	6	25	6	28	6	32	6	35	6	38	
38	6	00	6	03	6	06	6	09	6	13	6	16	6	20	6	23	6	26	6	29	6	33	6	36	6	40	
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40	6	00	6	03	6	07	6	10	6	13	6	17	6	20	6	23	6	26	6	30	6	33	6	37	6	43	
41	6	00	6	03	6	07	6	11	6	14	6	17	6	21	6	25	6	28	6	32	6	35	6	39	6	44	
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45	6	00	6	04	6	08	6	12	6	17	6	21	6	25	6	29	6	33	6	38	6	42	6	46	6	51	
46	6	00	6	04	6	08	6	13	6	17	6	22	6	26	6	30	6	35	6	39	6	44	6	48	6	53	
47	6	00	6	04	6	09	6	13	6	18	6	22	6	27	6	31	6	36	6	41	6	45	6	50	6	55	
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53	6	00	6	05	6	11	6	16	6	21	6	27	6	32	6	38	6	43	6	49	6	54	7	00	7	08	
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58	6	00	6	06	6	13	6	19	6	26	6	32	6	39	6	45	6	52	6	59	7	06	7	12	7	20	
59	6	00	6	07	6	13	6	20	6	27	6	33	6	40	6	47	6	54	7	01	7	08	7	16	7	23	
60	6	00	6	07	6	14	6	21	6	28	6	35	6	42	6	49	6	56	7	04	7	11	7	19	7	26	

and declination are of the same name, and the time of its rising,
are of different names.

DECLINATION.

Lat.	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°
	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
1°	6 01	6 01	6 01	6 01	6 01	6 01	6 01	6 01	6 02	6 02	6 02	6 02
2	6 02	6 02	6 02	6 02	6 02	6 02	6 03	6 03	6 03	6 03	6 03	6 03
3	6 03	6 03	6 03	6 03	6 04	6 04	6 04	6 04	6 05	6 05	6 05	6 05
4	6 04	6 04	6 04	6 05	6 05	6 05	6 06	6 06	6 06	6 06	6 07	6 07
5	6 05	6 05	6 05	6 06	6 06	6 06	6 07	6 07	6 07	6 08	6 08	6 09
6	6 06	6 06	6 06	6 07	6 07	6 07	6 08	6 08	6 09	6 09	6 10	6 10
7	6 06	6 07	6 08	6 08	6 09	6 09	6 10	6 10	6 11	6 11	6 12	6 12
8	6 07	6 08	6 09	6 09	6 10	6 10	6 11	6 12	6 12	6 13	6 14	6 14
9	6 08	6 09	6 10	6 10	6 11	6 12	6 13	6 13	6 14	6 15	6 16	6 16
10	6 09	6 10	6 11	6 12	6 12	6 13	6 14	6 15	6 16	6 16	6 17	6 18
11	6 10	6 11	6 12	6 13	6 14	6 15	6 16	6 17	6 18	6 19	6 20	6 21
12	6 11	6 12	6 13	6 14	6 15	6 16	6 17	6 18	6 19	6 20	6 21	6 22
13	6 12	6 13	6 14	6 15	6 16	6 17	6 18	6 19	6 20	6 21	6 22	6 23
14	6 13	6 14	6 15	6 16	6 17	6 18	6 19	6 20	6 21	6 22	6 23	6 24
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19	6 18	6 20	6 21	6 23	6 24	6 26	6 27	6 29	6 30	6 32	6 34	6 36
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21	6 20	6 22	6 24	6 26	6 28	6 30	6 32	6 34	6 36	6 38	6 40	6 42
22	6 21	6 23	6 25	6 27	6 29	6 31	6 33	6 35	6 37	6 39	6 41	6 43
23	6 22	6 24	6 26	6 28	6 30	6 32	6 34	6 36	6 38	6 40	6 42	6 44
24	6 23	6 25	6 27	6 29	6 31	6 33	6 35	6 37	6 39	6 41	6 43	6 45
25	6 25	6 27	6 29	6 31	6 33	6 35	6 37	6 39	6 41	6 43	6 45	6 47
26	6 26	6 28	6 30	6 32	6 34	6 36	6 38	6 40	6 42	6 44	6 46	6 48
27	6 27	6 29	6 31	6 33	6 35	6 37	6 39	6 41	6 43	6 45	6 47	6 49
28	6 28	6 30	6 32	6 34	6 36	6 38	6 40	6 42	6 44	6 46	6 48	6 50
29	6 29	6 31	6 33	6 35	6 37	6 39	6 41	6 43	6 45	6 47	6 49	6 51
30	6 31	6 33	6 35	6 37	6 39	6 41	6 43	6 45	6 47	6 49	6 51	6 53
31	6 32	6 34	6 36	6 38	6 40	6 42	6 44	6 46	6 48	6 50	6 52	6 54
32	6 33	6 35	6 37	6 39	6 41	6 43	6 45	6 47	6 49	6 51	6 53	6 55
33	6 34	6 36	6 38	6 40	6 42	6 44	6 46	6 48	6 50	6 52	6 54	6 56
34	6 36	6 38	6 40	6 42	6 44	6 46	6 48	6 50	6 52	6 54	6 56	6 58
35	6 37	6 40	6 43	6 46	6 49	6 52	6 55	6 58	6 61	6 64	6 67	6 70
36	6 39	6 42	6 45	6 48	6 51	6 54	6 57	6 60	6 63	6 66	6 69	6 72
37	6 40	6 43	6 47	6 50	6 53	6 56	6 59	6 62	6 65	6 68	6 71	6 74
38	6 42	6 45	6 48	6 52	6 55	6 58	6 61	6 64	6 67	6 70	6 73	6 76
39	6 43	6 47	6 50	6 54	6 57	6 60	6 63	6 66	6 69	6 72	6 75	6 78
40	6 45	6 48	6 52	6 56	6 59	6 62	6 65	6 68	6 71	6 74	6 77	6 80
41	6 46	6 50	6 54	6 58	6 61	6 64	6 67	6 70	6 73	6 76	6 79	6 82
42	6 48	6 52	6 56	6 60	6 63	6 66	6 69	6 72	6 75	6 78	6 81	6 84
43	6 50	6 54	6 58	6 62	6 65	6 68	6 71	6 74	6 77	6 80	6 83	6 86
44	6 52	6 56	6 60	6 64	6 67	6 70	6 73	6 76	6 79	6 82	6 85	6 88
45	6 53	6 58	6 62	6 66	6 69	6 72	6 75	6 78	6 81	6 84	6 87	6 90
46	6 55	6 60	6 64	6 68	6 71	6 74	6 77	6 80	6 83	6 86	6 89	6 92
47	6 57	6 62	6 66	6 70	6 73	6 76	6 79	6 82	6 85	6 88	6 91	6 94
48	6 59	6 64	6 68	6 72	6 75	6 78	6 81	6 84	6 87	6 90	6 93	6 96
49	7 02	6 67	6 71	6 75	6 78	6 81	6 84	6 87	6 90	6 93	6 96	6 99
50	7 04	6 69	6 73	6 77	6 80	6 83	6 86	6 89	6 92	6 95	6 98	7 01
51	7 06	6 71	6 75	6 79	6 82	6 85	6 88	6 91	6 94	6 97	7 00	7 03
52	7 09	6 74	6 78	6 82	6 85	6 88	6 91	6 94	6 97	7 00	7 03	7 06
53	7 11	6 77	6 81	6 84	6 87	6 90	6 93	6 96	6 99	7 02	7 05	7 08
54	7 14	6 80	6 84	6 87	6 90	6 93	6 96	6 99	7 02	7 05	7 08	7 11
55	7 17	6 83	6 87	6 90	6 93	6 96	6 99	7 02	7 05	7 08	7 11	7 14
56	7 20	6 86	6 90	6 93	6 96	6 99	7 02	7 05	7 08	7 11	7 14	7 17
57	7 23	6 89	6 93	6 96	6 99	7 02	7 05	7 08	7 11	7 14	7 17	7 20
58	7 27	6 93	6 97	7 00	7 03	7 06	7 09	7 12	7 15	7 18	7 21	7 24
59	7 30	6 96	7 00	7 03	7 06	7 09	7 12	7 15	7 18	7 21	7 24	7 27
60	7 34	6 42	7 05	7 08	7 11	7 14	7 17	7 20	7 23	7 26	7 29	7 32

M.	0	1	2	3	4	5	6	7	8	9	M.
Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	
0	0	60.0	120.0	180.1	240.2	300.4	360.7	421.1	481.6	542.2	0
1	1.0	61.0	121.0	181.1	241.2	301.4	361.7	422.1	482.6	543.3	1
2	2.0	62.0	122.0	182.1	242.2	302.4	362.7	423.1	483.6	544.3	2
3	3.0	63.0	123.0	183.1	243.2	303.4	363.7	424.1	484.6	545.3	3
4	4.0	64.0	124.0	184.1	244.2	304.4	364.7	425.1	485.6	546.3	4
5	5.0	65.0	125.0	185.1	245.2	305.4	365.7	426.1	486.6	547.3	5
6	6.0	66.0	126.0	186.1	246.2	306.4	366.7	427.1	487.6	548.3	6
7	7.0	67.0	127.0	187.1	247.2	307.4	367.7	428.1	488.6	549.3	7
8	8.0	68.0	128.0	188.1	248.2	308.4	368.7	429.1	489.6	550.3	8
9	9.0	69.0	129.0	189.1	249.2	309.4	369.7	430.1	490.7	551.4	9
10	10.0	70.0	130.0	190.1	250.2	310.4	370.7	431.1	491.7	552.4	10
11	11.0	71.0	131.0	191.1	251.2	311.4	371.7	432.1	492.7	553.4	11
12	12.0	72.0	132.0	192.1	252.2	312.4	372.7	433.1	493.7	554.4	12
13	13.0	73.0	133.0	193.1	253.2	313.4	373.7	434.2	494.7	555.4	13
14	14.0	74.0	134.0	194.1	254.2	314.4	374.7	435.2	495.7	556.4	14
15	15.0	75.0	135.0	195.1	255.2	315.4	375.7	436.2	496.7	557.4	15
16	16.0	76.0	136.0	196.1	256.2	316.4	376.8	437.2	497.7	558.4	16
17	17.0	77.0	137.0	197.1	257.2	317.5	377.8	438.2	498.7	559.4	17
18	18.0	78.0	138.0	198.1	258.2	318.5	378.8	439.2	499.8	560.5	18
19	19.0	79.0	139.0	199.1	259.2	319.5	379.8	440.2	500.8	561.5	19
20	20.0	80.0	140.0	200.1	260.2	320.5	380.8	441.2	501.8	562.5	20
21	21.0	81.0	141.0	201.1	261.3	321.5	381.8	442.2	502.8	563.5	21
22	22.0	82.0	142.0	202.1	262.3	322.5	382.8	443.2	503.8	564.5	22
23	23.0	83.0	143.0	203.1	263.3	323.5	383.8	444.2	504.8	565.5	23
24	24.0	84.0	144.0	204.1	264.3	324.5	384.8	445.2	505.8	566.6	24
25	25.0	85.0	145.0	205.1	265.3	325.5	385.8	446.2	506.8	567.6	25
26	26.0	86.0	146.0	206.1	266.3	326.5	386.8	447.3	507.8	568.6	26
27	27.0	87.0	147.0	207.1	267.3	327.5	387.8	448.3	508.9	569.6	27
28	28.0	88.0	148.0	208.1	268.3	328.5	388.8	449.3	509.9	570.6	28
29	29.0	89.0	149.0	209.1	269.3	329.5	389.8	450.3	510.9	571.6	29
30	30.0	90.0	150.0	210.1	270.3	330.5	390.8	451.3	511.9	572.6	30
31	31.0	91.0	151.0	211.1	271.3	331.5	391.8	452.3	512.9	573.7	31
32	32.0	92.0	152.0	212.1	272.3	332.5	392.8	453.3	513.9	574.7	32
33	33.0	93.0	153.1	213.1	273.3	333.5	393.9	454.3	514.9	575.7	33
34	34.0	94.0	154.1	214.1	274.3	334.5	394.9	455.3	515.9	576.7	34
35	35.0	95.0	155.1	215.1	275.3	335.5	395.9	456.3	516.9	577.7	35
36	36.0	96.0	156.1	216.1	276.3	336.5	396.9	457.3	518.0	578.7	36
37	37.0	97.0	157.1	217.1	277.3	337.5	397.9	458.4	519.0	579.7	37
38	38.0	98.0	158.1	218.1	278.3	338.5	398.9	459.4	520.0	580.8	38
39	39.0	99.0	159.1	219.1	279.3	339.6	399.9	460.4	521.0	581.8	39
40	40.0	100.0	160.1	220.2	280.3	340.6	400.9	461.4	522.0	582.8	40
41	41.0	101.0	161.1	221.2	281.3	341.6	401.9	462.4	523.0	583.8	41
42	42.0	102.0	162.1	222.2	282.3	342.6	402.9	463.4	524.0	584.8	42
43	43.0	103.0	163.1	223.2	283.3	343.6	403.9	464.4	525.0	585.8	43
44	44.0	104.0	164.1	224.2	284.3	344.6	404.9	465.4	526.0	586.8	44
45	45.0	105.0	165.1	225.2	285.3	345.6	405.9	466.4	527.1	587.9	45
46	46.0	106.0	166.1	226.2	286.3	346.6	407.0	467.4	528.1	588.9	46
47	47.0	107.0	167.1	227.2	287.3	347.6	408.0	468.4	529.1	589.9	47
48	48.0	108.0	168.1	228.2	288.3	348.6	409.0	469.5	530.1	590.9	48
49	49.0	109.0	169.1	229.2	289.3	349.6	410.0	470.5	531.1	591.9	49
50	50.0	110.0	170.1	230.2	290.3	350.6	411.0	471.5	532.1	592.9	50
51	51.0	111.0	171.1	231.2	291.3	351.6	412.0	472.5	533.1	593.9	51
52	52.0	112.0	172.1	232.2	292.4	352.6	413.0	473.5	534.1	595.0	52
53	53.0	113.0	173.1	233.2	293.4	353.6	414.0	474.5	535.1	596.0	53
54	54.0	114.0	174.1	234.2	294.4	354.6	415.0	475.5	536.2	597.0	54
55	55.0	115.0	175.1	235.2	295.4	355.6	416.0	476.5	537.2	598.0	55
56	56.0	116.0	176.1	236.2	296.4	356.6	417.0	477.5	538.2	599.0	56
57	57.0	117.0	177.1	237.2	297.4	357.6	418.0	478.5	539.2	600.0	57
58	58.0	118.0	178.1	238.2	298.4	358.6	419.0	479.5	540.2	601.0	58
59	59.0	119.0	179.1	239.2	299.4	359.6	420.0	480.5	541.2	602.1	59

M.	10 Deg.	11 Deg.	12 Deg.	13 Deg.	14 Deg.	15 Deg.	16 Deg.	17 Deg.	18 Deg.	19 Deg.	M.
0	603.1	664.1	725.3	786.6	848.5	910.5	972.8	1035.3	1098.2	1161.5	0
1	604.1	665.1	726.4	787.6	849.5	911.5	973.8	1036.3	1099.3	1162.5	1
2	605.1	666.1	727.4	788.6	850.5	912.6	974.8	1037.4	1100.3	1163.6	2
3	606.1	667.1	728.4	789.6	851.6	913.6	975.9	1038.4	1101.4	1164.7	3
4	607.1	668.1	729.4	790.6	852.6	914.6	976.9	1039.5	1102.4	1165.7	4
5	608.2	669.2	730.5	791.9	853.6	915.7	978.0	1040.5	1103.5	1166.8	5
6	609.2	670.2	731.5	792.9	854.7	916.7	979.0	1041.6	1104.5	1167.8	6
7	610.2	671.2	732.5	794.0	855.7	917.7	980.0	1042.6	1105.6	1168.9	7
8	611.2	672.2	733.5	795.0	856.7	918.8	981.1	1043.7	1106.6	1170.0	8
9	612.2	673.2	734.5	796.0	857.8	919.8	982.1	1044.7	1107.7	1171.0	9
10	613.2	674.3	735.6	797.0	858.8	920.8	983.2	1045.8	1108.7	1172.1	10
11	614.2	675.3	736.6	798.1	859.8	921.9	984.2	1046.8	1109.8	1173.1	11
12	615.3	676.3	737.6	799.1	860.0	922.9	985.3	1047.9	1110.8	1174.2	12
13	616.3	677.3	738.6	800.2	861.9	923.9	986.3	1048.9	1111.9	1175.2	13
14	617.3	678.4	739.6	801.2	862.9	925.0	987.3	1049.9	1112.9	1176.3	14
15	618.3	679.4	740.7	802.2	864.0	926.0	988.4	1051.0	1114.0	1177.4	15
16	619.3	680.4	741.7	803.2	865.0	927.0	989.4	1052.0	1115.0	1178.4	16
17	620.3	681.4	742.7	804.2	866.0	928.1	990.4	1053.1	1116.1	1179.5	17
18	621.3	682.4	743.7	805.3	867.1	929.1	991.5	1054.1	1117.1	1180.5	18
19	622.4	683.4	744.8	806.3	868.1	930.1	992.5	1055.2	1118.2	1181.6	19
20	623.4	684.5	745.8	807.3	869.1	931.2	993.6	1056.2	1119.2	1182.7	20
21	624.4	685.5	746.8	808.4	870.1	932.2	994.6	1057.3	1120.3	1183.7	21
22	625.4	686.5	747.8	809.4	871.2	933.2	995.6	1058.3	1121.3	1184.8	22
23	626.4	687.5	748.9	810.4	872.2	934.3	996.7	1059.4	1122.4	1185.8	23
24	627.4	688.5	749.9	811.4	873.2	935.3	997.7	1060.4	1123.4	1186.9	24
25	628.5	689.6	750.9	812.5	874.3	936.3	998.8	1061.4	1124.5	1188.0	25
26	629.5	690.6	751.9	813.5	875.3	937.4	999.8	1062.5	1125.5	1189.0	26
27	630.5	691.6	753.0	814.5	876.3	938.4	1000.8	1063.5	1126.6	1190.1	27
28	631.5	692.6	754.0	815.5	877.4	939.4	1001.9	1064.6	1127.6	1191.1	28
29	632.5	693.6	755.0	816.6	878.4	940.5	1002.9	1065.6	1128.7	1192.2	29
30	633.5	694.7	756.0	817.6	879.4	941.5	1004.0	1066.7	1129.7	1193.2	30
31	634.6	695.7	757.1	818.6	880.5	942.5	1005.0	1067.7	1130.8	1194.3	31
32	635.6	696.7	758.1	819.6	881.5	943.6	1006.1	1068.8	1131.8	1195.4	32
33	636.6	697.7	759.1	820.7	882.5	944.6	1007.1	1069.8	1132.9	1196.4	33
34	637.6	698.7	760.1	821.7	883.6	945.6	1008.1	1070.9	1134.0	1197.5	34
35	638.6	699.8	761.1	822.7	884.6	946.7	1009.2	1072.0	1135.1	1198.5	35
36	639.6	700.8	762.2	823.8	885.6	947.7	1010.2	1073.0	1136.1	1199.6	36
37	640.7	701.8	763.2	824.8	886.7	948.7	1011.3	1074.1	1137.2	1200.7	37
38	641.7	702.8	764.2	825.8	887.7	949.8	1012.3	1075.1	1138.2	1201.7	38
39	642.7	703.8	765.2	826.8	888.7	950.8	1013.4	1076.2	1139.3	1202.8	39
40	643.7	704.9	766.3	827.9	889.8	951.9	1014.4	1077.2	1140.3	1203.9	40
41	644.7	705.9	767.3	828.9	890.8	952.9	1015.4	1078.3	1141.4	1204.9	41
42	645.8	706.9	768.3	829.9	891.8	953.9	1016.5	1079.3	1142.4	1206.0	42
43	646.8	707.9	769.3	831.0	892.9	955.0	1017.5	1080.4	1143.5	1207.1	43
44	647.8	709.0	770.4	832.0	893.9	956.0	1018.6	1081.4	1144.6	1208.1	44
45	648.8	710.0	771.4	833.0	894.9	957.1	1019.6	1082.5	1145.6	1209.2	45
46	649.8	711.0	772.4	834.1	896.0	958.1	1020.6	1083.5	1146.7	1210.2	46
47	650.8	712.0	773.4	835.1	897.0	959.2	1021.7	1084.6	1147.7	1211.3	47
48	651.9	713.0	774.5	836.1	898.0	960.2	1022.7	1085.6	1148.8	1212.4	48
49	652.9	714.1	775.5	837.2	899.1	961.3	1023.8	1086.7	1149.8	1213.4	49
50	653.9	715.1	776.5	838.2	900.1	962.3	1024.8	1087.7	1150.9	1214.5	50
51	654.9	716.1	777.5	839.2	901.1	963.4	1025.9	1088.8	1152.0	1215.5	51
52	655.9	717.1	778.6	840.2	902.2	964.4	1026.9	1089.8	1153.0	1216.6	52
53	656.9	718.2	779.6	841.3	903.2	965.5	1028.0	1090.9	1154.1	1217.7	53
54	658.0	719.2	780.6	842.3	904.3	966.5	1029.0	1091.9	1155.1	1218.7	54
55	659.0	720.2	781.7	843.4	905.3	967.6	1030.1	1093.0	1156.2	1219.8	55
56	660.0	721.2	782.7	844.4	906.3	968.6	1031.1	1094.0	1157.2	1220.9	56
57	661.0	722.3	783.7	845.4	907.4	969.6	1032.2	1095.1	1158.3	1221.9	57
58	662.1	723.3	784.7	846.5	908.4	970.7	1033.2	1096.1	1159.4	1223.0	58
59	663.1	724.3	785.8	847.5	909.4	971.7	1034.3	1097.2	1160.4	1224.1	59

M.	20 Deg.	21 Deg.	22 Deg.	23 Deg.	24 Deg.	25 Deg.	26 Deg.	27 Deg.	28 Deg.	29 Deg.	M.
0	1235.1	1289.2	1353.7	1418.6	1484.1	1550.0	1616.5	1683.5	1751.2	1819.5	0
1	1236.2	1290.3	1354.8	1419.7	1485.2	1551.1	1617.6	1684.6	1752.3	1820.6	1
2	1237.3	1291.3	1355.9	1420.8	1486.3	1552.2	1618.7	1685.8	1753.4	1821.7	2
3	1238.3	1292.4	1356.9	1421.9	1487.3	1553.3	1619.8	1686.9	1754.6	1822.9	3
4	1239.4	1293.5	1358.0	1423.0	1488.4	1554.4	1620.9	1688.0	1755.7	1824.0	4
5	1230.4	1294.5	1359.0	1424.1	1489.5	1555.5	1622.0	1689.1	1756.8	1825.2	5
6	1231.5	1295.6	1360.1	1425.1	1490.6	1556.6	1623.2	1690.3	1758.0	1826.3	6
7	1232.6	1296.7	1361.2	1426.2	1491.7	1557.7	1624.3	1691.4	1759.1	1827.5	7
8	1233.6	1297.8	1362.3	1427.3	1492.8	1558.8	1625.4	1692.5	1760.2	1828.6	8
9	1234.7	1298.8	1363.4	1428.4	1493.9	1559.9	1626.5	1693.6	1761.4	1829.7	9
10	1235.8	1299.9	1364.5	1429.5	1495.0	1561.0	1627.6	1694.8	1762.5	1830.9	10
11	1236.8	1301.0	1365.6	1430.6	1496.1	156	1628.7	1695.9	1763.6	1832.0	11
12	1237.9	1302.0	1366.6	1431.7	1497.2	156	1629.8	1697.0	1764.8	1833.2	12
13	1239.0	1303.1	1367.7	1432.8	1498.3	156	1631.0	1698.1	1765.9	1834.3	13
14	1240.0	1304.2	1368.8	1433.9	1499.4	156	1632.1	1699.3	1767.0	1835.5	14
15	1241.1	1305.3	1369.9	1434.9	1500.5	156	1633.2	1700.4	1768.2	1836.6	15
16	1242.2	1306.3	1370.9	1436.0	1501.6	156	1634.3	1701.5	1769.3	1837.8	16
17	1243.2	1307.4	1372.0	1437.1	1502.7	156	1635.4	1702.6	1770.5	1838.9	17
18	1244.3	1308.5	1373.1	1438.2	1503.8	156	1636.5	1703.8	1771.6	1840.1	18
19	1245.4	1309.6	1374.2	1439.3	1504.9	157	1637.7	1704.9	1772.7	1841.2	19
20	1246.4	1310.6	1375.3	1440.4	1506.0	157	1638.8	1706.0	1773.9	1842.4	20
21	1247.5	1311.7	1376.4	1441.5	1507.1	157	1639.9	1707.1	1775.0	1843.5	21
22	1248.6	1312.8	1377.4	1442.6	1508.2	157	1641.0	1708.3	1776.1	1844.6	22
23	1249.6	1313.8	1378.5	1443.7	1509.3	157	1642.1	1709.4	1777.2	1845.8	23
24	1250.7	1314.9	1379.6	1444.8	1510.4	157	1643.2	1710.5	1778.4	1846.9	24
25	1251.8	1316.0	1380.7	1445.9	1511.5	157	1644.3	1711.6	1779.5	1848.1	25
26	1252.8	1317.1	1381.8	1446.9	1512.6	157	1645.5	1712.8	1780.6	1849.2	26
27	1253.9	1318.1	1382.8	1448.0	1513.7	157	1646.6	1713.9	1781.8	1850.4	27
28	1255.0	1319.2	1383.9	1449.1	1514.8	158	1647.7	1715.0	1783.0	1851.5	28
29	1256.0	1320.3	1385.0	1450.2	1515.9	158	1648.8	1716.1	1784.1	1852.7	29
30	1157.1	1321.4	1386.1	1451.3	1517.0	158	1649.9	1717.3	1785.2	1853.8	30
31	1258.2	1322.5	1387.2	1452.4	1518.1	158	1651.0	1718.4	1786.4	1855.0	31
32	1259.2	1323.5	1388.3	1453.5	1519.2	158	1652.2	1719.5	1787.5	1856.1	32
33	1260.3	1324.6	1389.4	1454.6	1520.3	158	1653.3	1720.7	1788.6	1857.2	33
34	1261.4	1325.7	1390.4	1455.6	1521.4	158	1654.4	1721.8	1789.8	1858.4	34
35	1262.4	1326.7	1391.5	1456.7	1522.5	158	1655.5	1722.9	1790.9	1859.6	35
36	1263.5	1327.8	1392.6	1457.8	1523.6	158	1656.6	1724.0	1792.1	1860.7	36
37	1264.6	1328.9	1393.7	1458.9	1524.7	159	1657.8	1725.2	1793.2	1861.9	37
38	1265.6	1330.0	1394.8	1460.0	1525.8	159	1658.9	1726.3	1794.3	1863.0	38
39	1266.7	1331.0	1395.8	1461.1	1526.9	159	1660.0	1727.4	1795.5	1864.2	39
40	1267.8	1332.1	1396.9	1462.2	1528.0	159	1661.1	1728.6	1796.6	1865.3	40
41	1268.8	1333.2	1398.0	1463.3	1529.1	159	1662.2	1729.7	1797.8	1866.5	41
42	1269.9	1334.3	1399.1	1464.4	1530.2	159	1663.4	1730.8	1798.9	1867.6	42
43	1271.0	1335.3	1400.2	1465.5	1531.3	159	1664.5	1731.9	1800.0	1868.8	43
44	1272.1	1336.4	1401.3	1466.6	1532.4	159	1665.6	1733.1	1801.2	1869.9	44
45	1273.1	1337.5	1402.4	1467.7	1533.5	159	1666.7	1734.2	1802.3	1871.1	45
46	1274.2	1338.6	1403.4	1468.8	1534.6	160	1667.8	1735.3	1803.5	1872.2	46
47	1275.3	1339.7	1404.5	1469.9	1535.7	160	1669.0	1736.5	1804.6	1873.4	47
48	1276.3	1340.7	1405.6	1470.9	1536.8	160	1670.1	1737.6	1805.7	1874.5	48
49	1277.4	1341.8	1406.7	1472.0	1537.9	160	1671.2	1738.7	1806.9	1875.7	49
50	1278.5	1342.9	1407.8	1473.1	1539.0	160	1672.3	1739.9	1808.0	1876.8	50
51	1279.5	1344.0	1408.8	1474.2	1540.1	160	1673.4	1741.0	1809.2	1878.0	51
52	1280.6	1345.1	1409.9	1475.3	1541.2	160	1674.5	1742.1	1810.3	1879.2	52
53	1281.7	1346.1	1411.0	1476.4	1542.3	160	1675.7	1743.2	1811.4	1880.3	53
54	1282.8	1347.2	1412.1	1477.5	1543.4	160	1676.8	1744.4	1812.6	1881.5	54
55	1283.8	1348.3	1413.2	1478.6	1544.5	161	1678.0	1745.5	1813.7	1882.6	55
56	1284.9	1349.4	1414.3	1479.7	1545.6	161	1679.1	1746.6	1814.9	1883.8	56
57	1286.0	1350.4	1415.4	1480.8	1546.7	161	1680.2	1747.8	1816.0	1884.9	57
58	1287.0	1351.5	1416.5	1481.9	1547.8	161	1681.3	1748.9	1817.2	1886.1	58
59	1288.1	1352.6	1417.6	1483.0	1548.9	161	1682.4	1750.0	1818.3	1887.2	59

M.	30 Deg.	31 Deg.	32 Deg.	33 Deg.	34 Deg.	35 Deg.	36 Deg.	37 Deg.	38 Deg.	39 Deg.	M.
0	1888-4	1938-0	2020-4	2099-6	2171-5	2244-3	2318-0	2382-7	2468-3	2545-0	0
1	1889-5	1939-2	2029-6	2100-7	2172-7	2245-5	2319-3	2383-9	2469-6	2546-2	1
2	1890-7	1940-4	2030-7	2101-9	2173-9	2246-8	2320-5	2385-2	2470-8	2547-5	2
3	1891-9	1941-6	2031-9	2103-1	2175-1	2248-0	2321-7	2386-4	2472-1	2548-8	3
4	1893-0	1942-7	2033-1	2104-3	2176-3	2249-2	2323-0	2397-7	2473-4	2550-1	4
5	1894-1	1943-0	2034-3	2105-5	2177-5	2250-4	2324-2	2398-6	2474-6	2551-4	5
6	1895-3	1945-0	2035-5	2106-7	2178-7	2251-6	2325-4	2400-2	2475-9	2552-7	6
7	1896-5	1946-2	2036-7	2107-9	2180-0	2252-9	2326-7	2401-4	2477-1	2554-0	7
8	1897-6	1947-4	2037-8	2109-1	2181-2	2254-1	2327-9	2402-7	2478-5	2555-3	8
9	1898-8	1948-5	2039-0	2110-3	2182-4	2255-3	2329-2	2403-9	2479-7	2556-6	9
10	1899-9	1949-7	2040-2	2111-5	2183-6	2256-5	2330-4	2405-2	2481-0	2557-8	10
11	1901-1	1970-9	2041-4	2112-7	2184-8	2257-8	2331-6	2406-4	2482-3	2559-1	11
12	1902-3	1972-0	2042-6	2113-9	2186-0	2259-0	2332-8	2407-7	2483-5	2560-4	12
13	1903-4	1973-2	2043-8	2115-1	2187-2	2260-2	2334-1	2409-0	2484-8	2561-7	13
14	1904-6	1974-4	2044-9	2116-3	2188-4	2261-4	2335-3	2410-2	2486-1	2563-0	14
15	1905-7	1975-6	2046-1	2117-5	2189-6	2262-7	2336-6	2411-5	2487-4	2564-3	15
16	1906-9	1976-8	2047-3	2118-7	2190-8	2263-9	2337-8	2412-7	2488-6	2565-6	16
17	1908-1	1977-9	2048-5	2119-8	2192-0	2265-1	2339-0	2414-0	2489-9	2566-9	17
18	1909-2	1979-1	2049-7	2121-0	2193-3	2266-3	2340-3	2415-2	2491-2	2568-2	18
19	1910-4	1980-3	2050-8	2122-2	2194-5	2267-6	2341-5	2416-5	2492-5	2569-5	19
20	1911-5	1981-4	2052-0	2123-4	2195-7	2268-8	2342-8	2417-8	2493-7	2570-7	20
21	1912-7	1982-6	2053-2	2124-6	2196-9	2270-0	2344-0	2419-0	2495-0	2572-0	21
22	1913-8	1983-7	2054-4	2125-8	2198-1	2271-2	2345-3	2420-3	2496-3	2573-3	22
23	1915-0	1984-9	2055-6	2127-0	2199-3	2272-5	2346-5	2421-5	2497-6	2574-6	23
24	1916-2	1986-1	2056-8	2128-2	2200-5	2273-7	2347-8	2422-8	2498-8	2575-9	24
25	1917-3	1987-3	2058-0	2129-4	2201-7	2274-9	2349-0	2424-0	2500-1	2577-2	25
26	1918-5	1988-4	2059-1	2130-6	2203-0	2276-1	2350-2	2425-3	2501-4	2578-5	26
27	1919-6	1989-6	2060-3	2131-8	2204-2	2277-4	2351-5	2426-5	2502-7	2579-7	27
28	1920-8	1990-8	2061-5	2133-0	2205-4	2278-6	2352-7	2427-8	2503-9	2581-1	28
29	1921-9	1992-0	2062-7	2134-2	2206-6	2279-8	2354-0	2429-1	2505-2	2582-4	29
30	1923-1	1993-1	2063-9	2135-4	2207-8	2281-0	2355-2	2430-3	2506-5	2583-7	30
31	1924-3	1994-3	2065-1	2136-6	2209-0	2282-3	2356-5	2431-6	2507-8	2585-0	31
32	1925-4	1995-5	2066-2	2137-8	2210-2	2283-5	2357-7	2432-9	2509-0	2586-3	32
33	1926-6	1996-6	2067-4	2139-0	2211-4	2284-7	2358-9	2434-1	2510-3	2587-6	33
34	1927-8	1997-8	2068-6	2140-2	2212-7	2286-0	2360-2	2435-4	2511-6	2588-9	34
35	1928-9	1999-0	2069-8	2141-4	2213-9	2287-2	2361-4	2436-7	2512-9	2590-2	35
36	1930-1	2000-2	2071-0	2142-6	2215-1	2288-4	2362-7	2437-9	2514-2	2591-5	36
37	1931-3	2001-3	2072-2	2143-8	2216-3	2289-7	2363-9	2439-2	2515-4	2592-8	37
38	1932-4	2002-5	2073-4	2145-0	2217-5	2290-9	2365-2	2440-4	2516-7	2594-1	38
39	1933-6	2003-7	2074-6	2146-2	2218-7	2292-1	2366-4	2441-7	2518-0	2595-4	39
40	1934-7	2004-9	2075-7	2147-4	2219-9	2293-3	2367-7	2443-0	2519-3	2596-7	40
41	1935-9	2006-0	2076-9	2148-6	2221-2	2294-6	2368-9	2444-2	2520-6	2598-0	41
42	1937-1	2007-2	2078-1	2149-8	2222-4	2295-8	2370-2	2445-4	2521-8	2599-3	42
43	1938-2	2008-4	2079-3	2151-0	2223-6	2297-0	2371-4	2446-8	2522-1	2600-6	43
44	1939-4	2009-6	2080-5	2152-2	2224-8	2298-3	2372-7	2448-0	2524-4	2601-9	44
45	1940-5	2010-7	2081-7	2153-4	2226-0	2299-5	2373-9	2449-3	2525-7	2603-2	45
46	1941-7	2011-9	2082-9	2154-6	2227-2	2300-7	2375-2	2450-6	2527-0	2604-5	46
47	1942-9	2013-1	2084-1	2155-8	2228-5	2302-0	2376-4	2451-8	2528-3	2605-8	47
48	1944-0	2014-3	2085-3	2157-0	2229-7	2303-2	2377-7	2453-1	2529-5	2607-1	48
49	1945-2	2015-4	2086-5	2158-2	2230-9	2304-4	2378-9	2454-3	2530-8	2608-4	49
50	1946-4	2016-6	2087-7	2159-4	2232-1	2305-7	2380-1	2455-6	2532-1	2609-7	50
51	1947-5	2017-8	2088-9	2160-7	2233-3	2306-9	2381-4	2456-9	2533-4	2611-0	51
52	1948-7	2019-0	2090-1	2161-9	2234-6	2308-1	2382-6	2458-1	2534-7	2612-3	52
53	1949-9	2020-2	2091-3	2163-1	2235-8	2309-4	2383-9	2459-4	2536-0	2613-6	53
54	1951-0	2021-3	2092-5	2164-3	2237-0	2310-6	2385-1	2460-7	2537-2	2614-9	54
55	1952-2	2022-5	2093-7	2165-5	2238-2	2311-8	2386-4	2461-9	2538-5	2616-2	55
56	1953-4	2023-7	2094-9	2166-7	2239-4	2313-1	2387-6	2463-2	2539-8	2617-5	56
57	1954-5	2024-9	2096-1	2167-9	2240-7	2314-3	2388-9	2464-5	2541-1	2618-8	57
58	1955-7	2026-0	2097-3	2169-1	2241-9	2315-5	2390-2	2465-8	2542-4	2620-1	58
59	1956-9	2027-2	2098-5	2170-3	2243-1	2316-7	2391-4	2467-0	2543-7	2621-4	59

M.	40 Deg.	41 Deg.	42 Deg.	43 Deg.	44 Deg.	45 Deg.	46 Deg.	47 Deg.	48 Deg.	49 Deg.	M.
0	2632-7	2701-6	2781-7	2863-1	2945-7	3030-0	3118-6	3202-8	3291-6	3383-1	0
1	2634-0	2702-9	2783-1	2864-5	2947-2	3031-4	3117-0	3204-2	3293-1	3383-6	1
2	2635-3	2704-3	2784-4	2865-8	2948-6	3032-8	3118-5	3205-7	3294-6	3385-2	2
3	2636-6	2705-6	2785-8	2867-2	2950-0	3034-2	3119-9	3207-2	3296-1	3386-7	3
4	2637-9	2706-9	2787-1	2868-5	2951-4	3035-6	3121-4	3208-6	3297-5	3388-2	4
5	2639-2	2708-3	2788-5	2870-0	2952-8	3037-0	3122-8	3210-1	3299-0	3389-7	5
6	2639-5	2709-6	2789-8	2871-3	2954-2	3038-4	3124-2	3211-6	3300-5	3391-3	6
7	2631-8	2710-9	2791-2	2872-7	2955-6	3039-8	3125-7	3213-0	3302-0	3392-8	7
8	2633-2	2712-2	2792-5	2874-1	2957-0	3041-3	3127-1	3214-5	3303-5	3394-3	8
9	2634-5	2713-6	2793-8	2875-4	2958-4	3042-7	3128-6	3216-0	3305-0	3395-9	9
10	2635-8	2714-9	2795-1	2876-8	2959-8	3044	3130-0	3217-4	3306-5	3397-4	10
11	2637-1	2716-2	2796-5	2878-2	2961-1	3045	3131-5	3218-9	3308-0	3398-9	11
12	2638-4	2717-5	2797-9	2879-5	2962-5	3046	3132-9	3220-4	3309-5	3400-4	12
13	2639-7	2718-9	2799-3	2880-9	2963-9	3048-4	3134-3	3221-9	3311-0	3402-0	13
14	2641-0	2720-2	2800-6	2882-3	2965-3	3049-8	3135-8	3223-3	3312-5	3403-5	14
15	2642-3	2721-5	2802-0	2883-7	2966-7	3051-2	3137-2	3224-8	3314-0	3405-0	15
16	2643-6	2722-9	2803-3	2885-0	2968-1	3052-6	3138-7	3226-3	3315-5	3406-6	16
17	2644-9	2724-2	2804-7	2886-4	2969-5	3054-1	3140-1	3227-7	3317-0	3408-1	17
18	2646-3	2725-5	2806-0	2887-8	2970-9	3055-5	3141-6	3229-2	3318-5	3409-6	18
19	2647-6	2726-9	2807-4	2889-2	2972-3	3056-9	3143-0	3230-7	3320-0	3411-2	19
20	2648-9	2728-2	2808-8	2890-5	2973-7	3058-3	3144-5	3232-2	3321-5	3412-7	20
21	2650-2	2729-5	2810-1	2891-9	2975-1	3059-7	3145-9	3233-6	3323-1	3414-2	21
22	2651-5	2730-8	2811-4	2893-3	2976-5	3061-2	3147-4	3235-1	3324-6	3415-8	22
23	2652-8	2732-2	2812-8	2894-7	2977-9	3062-6	3148-8	3236-6	3326-1	3417-3	23
24	2654-1	2733-5	2814-1	2896-0	2979-3	3064-0	3150-3	3238-1	3327-6	3418-8	24
25	2655-5	2734-8	2815-5	2897-4	2980-7	3065-4	3151-7	3239-5	3329-1	3420-4	25
26	2656-8	2736-2	2816-8	2898-8	2982-1	3066-9	3153-2	3241-0	3330-6	3421-9	26
27	2658-1	2737-5	2818-2	2900-2	2983-5	3068-3	3154-6	3242-5	3332-1	3423-5	27
28	2659-4	2738-8	2819-5	2901-5	2984-9	3069-7	3156-1	3244-0	3333-6	3425-0	28
29	2660-7	2740-2	2820-9	2902-9	2986-3	3071-1	3157-5	3245-5	3335-1	3426-5	29
30	2662-0	2741-5	2822-3	2904-3	2987-7	3072-6	3159-0	3246-9	3336-6	3428-1	30
31	2663-3	2742-9	2823-6	2905-7	2989-1	3074-0	3160-4	3248-4	3338-1	3429-6	31
32	2664-6	2744-2	2825-0	2907-1	2990-5	3075-4	3161-9	3249-9	3339-6	3431-2	32
33	2666-0	2745-5	2826-3	2908-4	2991-9	3076-9	3163-3	3251-4	3341-1	3432-7	33
34	2667-3	2746-9	2827-7	2909-7	2993-3	3078-3	3164-8	3252-9	3342-7	3434-2	34
35	2668-6	2748-2	2829-0	2911-2	2994-7	3079-7	3166-2	3254-4	3344-2	3435-8	35
36	2669-9	2749-5	2830-4	2912-6	2996-1	3081-1	3167-7	3255-8	3345-7	3437-3	36
37	2671-2	2750-9	2831-8	2914-0	2997-5	3082-6	3169-1	3257-3	3347-2	3438-9	37
38	2672-5	2752-2	2833-1	2915-3	2998-9	3084-0	3170-6	3258-8	3348-7	3440-4	38
39	2673-9	2753-5	2834-5	2916-7	3000-3	3085-4	3172-1	3260-3	3350-1	3442-0	39
40	2675-1	2754-9	2835-8	2918-1	3001-8	3086-9	3173-5	3261-8	3351-7	3443-5	40
41	2676-5	2756-2	2837-2	2919-5	3003-2	3088-3	3175-0	3263-3	3353-2	3445-0	41
42	2677-8	2757-6	2838-6	2920-9	3004-6	3089-7	3176-4	3264-7	3354-8	3446-6	42
43	2679-1	2758-9	2839-9	2922-3	3006-0	3091-2	3177-9	3266-2	3356-3	3448-1	43
44	2680-5	2760-2	2841-3	2923-6	3007-4	3092-6	3179-3	3267-7	3357-8	3449-7	44
45	2681-8	2761-5	2842-6	2925-0	3008-8	3094-0	3180-8	3269-2	3359-3	3451-2	45
46	2683-1	2762-9	2844-0	2926-4	3010-2	3095-5	3182-3	3270-7	3360-8	3452-8	46
47	2684-4	2764-3	2845-4	2927-8	3011-6	3096-9	3183-7	3272-2	3362-3	3454-3	47
48	2685-7	2765-6	2846-7	2929-2	3013-0	3098-3	3185-2	3273-7	3363-9	3455-9	48
49	2687-1	2766-9	2848-1	2930-6	3014-4	3099-8	3186-6	3275-2	3365-4	3457-4	49
50	2688-4	2768-3	2849-5	2932-0	3015-8	3101-2	3188-1	3276-6	3366-9	3459-0	50
51	2689-7	2769-6	2850-8	2933-3	3017-2	3102-6	3189-6	3278-1	3368-4	3460-5	51
52	2691-0	2771-0	2852-2	2934-7	3018-7	3104-1	3191-0	3279-6	3369-9	3462-1	52
53	2692-3	2772-3	2853-6	2936-1	3020-1	3105-6	3192-5	3281-1	3371-5	3463-6	53
54	2693-7	2773-7	2854-9	2937-5	3021-5	3107-0	3194-0	3282-6	3373-0	3465-2	54
55	2695-0	2775-0	2856-3	2938-9	3022-9	3108-4	3195-4	3284-1	3374-5	3466-7	55
56	2696-3	2776-4	2857-7	2940-3	3024-3	3109-8	3196-9	3285-6	3376-0	3468-3	56
57	2697-6	2777-7	2859-1	2941-7	3025-7	3111-2	3198-4	3287-1	3377-6	3469-8	57
58	2699-0	2779-0	2860-5	2943-1	3027-1	3112-7	3199-8	3288-6	3379-1	3471-4	58
59	2700-3	2780-4	2861-8	2944-4	3028-5	3114-1	3201-3	3290-1	3380-6	3473-0	59

M.	50 Deg.	51 Deg.	52 Deg.	53 Deg.	54 Deg.	55 Deg.	56 Deg.	57 Deg.	58 Deg.	59 Deg.	M.
0	3474.6	3469.8	3465.2	3460.8	3456.7	3452.6	3448.5	3444.3	3440.2	3436.1	0
1	3476.1	3470.4	3465.9	3461.5	3457.2	3452.9	3448.6	3444.3	3440.0	3435.7	1
2	3477.6	3472.0	3467.5	3463.1	3458.8	3454.5	3450.2	3445.9	3441.6	3437.3	2
3	3479.2	3473.6	3469.1	3464.7	3460.4	3456.1	3451.8	3447.5	3443.2	3438.9	3
4	3480.7	3475.2	3470.7	3466.3	3462.0	3457.7	3453.4	3449.1	3444.8	3440.5	4
5	3482.3	3476.8	3472.3	3467.9	3463.5	3459.2	3454.9	3450.6	3446.3	3442.0	5
6	3483.9	3478.4	3473.9	3469.5	3465.1	3460.8	3456.5	3452.2	3447.9	3443.6	6
7	3485.4	3480.0	3475.6	3471.2	3466.8	3462.5	3458.1	3453.8	3449.5	3445.2	7
8	3487.0	3481.6	3477.2	3472.8	3468.4	3464.1	3459.7	3455.4	3451.1	3446.8	8
9	3488.5	3483.2	3478.8	3474.4	3470.1	3465.7	3461.4	3457.1	3452.8	3448.5	9
10	3490.1	3484.8	3480.5	3476.1	3471.8	3467.5	3463.2	3458.9	3454.6	3450.3	10
11	3491.7	3486.4	3482.1	3477.7	3473.4	3469.1	3464.8	3460.5	3456.2	3451.9	11
12	3493.2	3488.0	3483.7	3479.3	3475.0	3470.7	3466.4	3462.1	3457.8	3453.5	12
13	3494.8	3489.5	3485.2	3480.9	3476.6	3472.3	3468.0	3463.7	3459.4	3455.1	13
14	3496.3	3491.1	3486.8	3482.5	3478.2	3473.9	3469.6	3465.3	3461.0	3456.7	14
15	3497.9	3492.7	3488.4	3484.1	3479.8	3475.5	3471.2	3466.9	3462.6	3458.3	15
16	3499.5	3494.3	3490.0	3485.7	3481.4	3477.1	3472.8	3468.5	3464.2	3459.9	16
17	3501.0	3495.9	3491.6	3487.3	3483.0	3478.7	3474.4	3470.1	3465.8	3461.5	17
18	3502.6	3497.5	3493.2	3488.9	3484.6	3480.3	3476.0	3471.7	3467.4	3463.1	18
19	3504.2	3499.1	3494.8	3490.5	3486.2	3481.9	3477.6	3473.3	3469.0	3464.7	19
20	3505.7	3500.7	3496.4	3492.1	3487.8	3483.5	3479.2	3474.9	3470.6	3466.3	20
21	3507.3	3502.3	3498.0	3493.7	3489.4	3485.1	3480.8	3476.5	3472.2	3467.9	21
22	3508.9	3503.9	3499.6	3495.3	3491.0	3486.7	3482.4	3478.1	3473.8	3469.5	22
23	3510.5	3505.5	3501.2	3496.9	3492.6	3488.3	3484.0	3479.7	3475.4	3471.1	23
24	3512.0	3507.1	3502.8	3498.5	3494.2	3489.9	3485.6	3481.3	3477.0	3472.7	24
25	3513.6	3508.7	3504.4	3500.1	3495.8	3491.5	3487.2	3482.9	3478.6	3474.3	25
26	3515.1	3510.3	3506.0	3501.7	3497.4	3493.1	3488.8	3484.5	3480.2	3475.9	26
27	3516.7	3511.9	3507.6	3503.3	3499.0	3494.7	3490.4	3486.1	3481.8	3477.5	27
28	3518.3	3513.5	3509.2	3504.9	3500.6	3496.3	3492.0	3487.7	3483.4	3479.1	28
29	3519.8	3515.1	3510.8	3506.5	3502.2	3497.9	3493.6	3489.3	3485.0	3480.7	29
30	3521.4	3516.7	3512.4	3508.1	3503.8	3499.5	3495.2	3490.9	3486.6	3482.3	30
31	3523.0	3518.3	3514.0	3509.7	3505.4	3501.1	3496.8	3492.5	3488.2	3483.9	31
32	3524.6	3520.0	3515.7	3511.4	3507.1	3502.8	3498.5	3494.2	3489.9	3485.6	32
33	3526.1	3521.6	3517.3	3513.0	3508.7	3504.4	3500.1	3495.8	3491.5	3487.2	33
34	3527.7	3523.2	3518.9	3514.6	3510.3	3506.0	3501.7	3497.4	3493.1	3488.8	34
35	3529.3	3524.8	3520.5	3516.2	3511.9	3507.6	3503.3	3499.0	3494.7	3490.4	35
36	3530.9	3526.4	3522.1	3517.8	3513.5	3509.2	3504.9	3500.6	3496.3	3492.0	36
37	3532.4	3528.0	3523.7	3519.4	3515.1	3510.8	3506.5	3502.2	3497.9	3493.6	37
38	3534.0	3529.6	3525.3	3521.0	3516.7	3512.4	3508.1	3503.8	3499.5	3495.2	38
39	3535.5	3531.2	3526.9	3522.6	3518.3	3514.0	3509.7	3505.4	3501.1	3496.8	39
40	3537.2	3532.9	3528.6	3524.3	3519.9	3515.6	3511.3	3507.0	3502.7	3498.4	40
41	3538.8	3534.5	3530.2	3525.9	3521.6	3517.3	3513.0	3508.7	3504.4	3500.1	41
42	3540.3	3536.1	3531.8	3527.5	3523.2	3518.9	3514.6	3510.3	3506.0	3501.7	42
43	3541.9	3537.7	3533.4	3529.1	3524.8	3520.5	3516.2	3511.9	3507.6	3503.3	43
44	3543.5	3539.3	3535.0	3530.7	3526.4	3522.1	3517.8	3513.5	3509.2	3504.9	44
45	3545.1	3540.9	3536.6	3532.3	3528.0	3523.7	3519.4	3515.1	3510.8	3506.5	45
46	3546.7	3542.5	3538.2	3533.9	3529.6	3525.3	3521.0	3516.7	3512.4	3508.1	46
47	3548.2	3544.0	3539.7	3535.4	3531.1	3526.8	3522.5	3518.2	3513.9	3509.6	47
48	3549.8	3545.6	3541.3	3537.0	3532.7	3528.4	3524.1	3519.8	3515.5	3511.2	48
49	3551.4	3547.2	3542.9	3538.6	3534.3	3530.0	3525.7	3521.4	3517.1	3512.8	49
50	3553.0	3548.8	3544.5	3540.2	3535.9	3531.6	3527.3	3523.0	3518.7	3514.4	50
51	3554.6	3550.4	3546.1	3541.8	3537.5	3533.2	3528.9	3524.6	3520.3	3516.0	51
52	3556.2	3552.0	3547.7	3543.4	3539.1	3534.8	3530.5	3526.2	3521.9	3517.6	52
53	3557.7	3553.5	3549.2	3544.9	3540.6	3536.3	3532.0	3527.7	3523.4	3519.1	53
54	3559.3	3555.1	3550.8	3546.5	3542.2	3537.9	3533.6	3529.3	3525.0	3520.7	54
55	3560.9	3556.7	3552.4	3548.1	3543.8	3539.5	3535.2	3530.9	3526.6	3522.3	55
56	3562.5	3558.3	3554.0	3549.7	3545.4	3541.1	3536.8	3532.5	3528.2	3523.9	56
57	3564.1	3560.0	3555.7	3551.4	3547.1	3542.8	3538.5	3534.2	3529.9	3525.6	57
58	3565.7	3561.5	3557.2	3552.9	3548.6	3544.3	3540.0	3535.7	3531.4	3527.1	58
59	3567.3	3563.1	3558.8	3554.5	3550.2	3545.9	3541.6	3537.3	3533.0	3528.7	59

M.	60 Deg.	61 Deg.	62 Deg.	63 Deg.	64 Deg.	65 Deg.	66 Deg.	67 Deg.	68 Deg.	69 Deg.	M.
0	4327.4	4649.2	4778.0	4905.0	5039.4	5178.8	5323.6	5474.0	5630.0	5794.6	0
1	4529.4	4651.3	4777.1	4907.2	5041.7	5181.2	5326.0	5476.6	5633.5	5797.4	1
2	4531.4	4653.4	4779.3	4909.4	5044.0	5183.6	5328.5	5479.2	5636.2	5800.2	2
3	4533.4	4655.5	4781.4	4911.6	5046.3	5186.0	5330.9	5481.7	5638.9	5803.0	3
4	4535.4	4657.5	4783.5	4913.8	5048.6	5188.3	5333.4	5484.3	5641.5	5805.8	4
5	4537.4	4659.6	4785.7	4916.0	5050.8	5190.7	5335.9	5486.9	5644.2	5808.6	5
6	4539.4	4661.7	4787.8	4918.2	5053.2	5193.1	5338.3	5489.4	5646.9	5811.4	6
7	4541.4	4663.7	4790.0	4920.4	5055.5	5195.4	5340.8	5492.0	5649.6	5814.2	7
8	4543.4	4665.8	4792.1	4922.6	5057.7	5197.9	5343.3	5494.6	5652.3	5817.0	8
9	4545.4	4667.9	4794.2	4924.8	5060.0	5200.2	5345.7	5497.1	5655.0	5819.8	9
10	4547.5	4669.9	4796.4	4927.1	5062.3	5202.5	5348.2	5499.7	5657.6	5822.6	10
11	4549.5	4672.0	4798.5	4929.3	5064.6	5204.8	5350.7	5502.3	5660.3	5825.4	11
12	4551.5	4674.1	4800.7	4931.5	5066.9	5207.1	5353.2	5504.9	5663.0	5828.2	12
13	4553.5	4676.2	4802.8	4933.7	5069.2	5209.4	5355.6	5507.4	5665.7	5831.0	13
14	4555.5	4678.2	4804.9	4935.9	5071.5	5211.7	5358.1	5510.0	5668.4	5833.9	14
15	4557.5	4680.3	4807.1	4938.1	5073.8	5214.0	5360.6	5512.6	5671.1	5836.7	15
16	4559.5	4682.4	4809.2	4940.4	5076.1	5216.3	5363.1	5515.2	5673.8	5839.5	16
17	4561.5	4684.5	4811.4	4942.6	5078.4	5218.6	5365.6	5517.8	5676.5	5842.3	17
18	4563.5	4686.6	4813.5	4944.8	5080.7	5220.9	5368.1	5520.4	5679.2	5845.2	18
19	4565.5	4688.6	4815.7	4947.0	5083.0	5223.2	5370.5	5523.0	5681.9	5848.0	19
20	4567.5	4690.7	4817.8	4949.3	5085.3	5225.5	5373.0	5525.6	5684.6	5850.8	20
21	4569.5	4692.8	4820.0	4951.5	5087.7	5227.8	5375.5	5528.2	5687.3	5853.7	21
22	4571.5	4694.9	4822.2	4953.7	5090.0	5230.1	5378.0	5530.8	5690.0	5856.5	22
23	4573.5	4697.0	4824.3	4956.0	5092.3	5232.4	5380.5	5533.4	5692.6	5859.3	23
24	4575.5	4699.1	4826.5	4958.2	5094.6	5234.7	5383.0	5536.0	5695.3	5862.2	24
25	4577.5	4701.2	4828.6	4960.4	5096.9	5237.0	5385.5	5538.6	5698.0	5865.0	25
26	4579.5	4703.3	4830.8	4962.7	5099.2	5239.3	5388.0	5541.2	5700.7	5867.9	26
27	4581.5	4705.3	4832.9	4964.9	5101.5	5241.6	5390.5	5543.8	5703.4	5870.7	27
28	4583.5	4707.4	4835.1	4967.1	5103.8	5243.9	5393.0	5546.4	5706.1	5873.5	28
29	4585.5	4709.5	4837.3	4969.4	5106.2	5246.2	5395.5	5549.0	5708.9	5876.4	29
30	4587.5	4711.6	4839.4	4971.6	5108.5	5248.5	5398.0	5551.6	5711.6	5879.3	30
31	4589.5	4713.7	4841.6	4973.9	5110.8	5250.8	5400.5	5554.2	5714.3	5882.1	31
32	4591.5	4715.8	4843.8	4976.1	5113.1	5253.1	5403.0	5556.8	5717.0	5885.0	32
33	4593.5	4717.9	4845.9	4978.3	5115.4	5255.4	5405.5	5559.5	5719.7	5887.8	33
34	4595.5	4720.0	4848.1	4980.6	5117.7	5257.7	5408.0	5562.1	5722.4	5890.7	34
35	4597.5	4722.1	4850.3	4982.8	5120.0	5260.0	5410.5	5564.7	5725.1	5893.6	35
36	4599.5	4724.2	4852.5	4985.1	5122.3	5262.3	5413.0	5567.3	5727.8	5896.5	36
37	4601.5	4726.3	4854.6	4987.3	5124.6	5264.6	5415.5	5569.9	5730.5	5899.3	37
38	4603.5	4728.4	4856.8	4989.6	5126.9	5266.9	5418.0	5572.6	5733.2	5902.2	38
39	4605.5	4730.5	4859.0	4991.8	5129.2	5269.2	5420.5	5575.2	5735.9	5905.1	39
40	4607.5	4732.6	4861.2	4994.1	5131.5	5271.5	5423.0	5577.8	5738.6	5907.9	40
41	4609.5	4734.7	4863.3	4996.3	5133.8	5273.8	5425.5	5580.5	5741.3	5910.8	41
42	4611.5	4736.8	4865.5	4998.6	5136.1	5276.1	5428.0	5583.1	5744.0	5913.7	42
43	4613.5	4738.9	4867.7	5000.9	5138.4	5278.4	5430.5	5585.7	5746.7	5916.6	43
44	4615.5	4741.1	4869.9	5003.1	5140.7	5280.7	5433.0	5588.4	5749.4	5919.5	44
45	4617.5	4743.2	4872.1	5005.4	5143.0	5283.0	5435.5	5591.0	5752.1	5922.4	45
46	4619.5	4745.3	4874.3	5007.6	5145.3	5285.3	5438.0	5593.7	5754.8	5925.3	46
47	4621.5	4747.4	4876.4	5009.9	5147.6	5287.6	5440.5	5596.3	5757.5	5928.1	47
48	4623.5	4749.5	4878.6	5012.2	5150.0	5290.0	5443.0	5599.0	5760.2	5931.0	48
49	4625.5	4751.7	4880.8	5014.4	5152.3	5292.3	5445.5	5601.6	5762.9	5933.9	49
50	4627.5	4753.8	4883.0	5016.7	5154.6	5294.6	5448.0	5604.3	5765.6	5936.8	50
51	4629.5	4755.9	4885.2	5019.0	5156.9	5296.9	5450.5	5606.9	5768.3	5939.7	51
52	4631.5	4758.0	4887.4	5021.2	5159.2	5299.2	5453.0	5609.6	5771.0	5942.6	52
53	4633.5	4760.1	4889.6	5023.5	5161.5	5301.5	5455.5	5612.2	5773.7	5945.5	53
54	4635.5	4762.3	4891.8	5025.8	5163.8	5303.8	5458.0	5614.9	5776.4	5948.4	54
55	4637.5	4764.4	4894.0	5028.1	5166.1	5306.1	5460.5	5617.5	5779.1	5951.3	55
56	4639.5	4766.5	4896.2	5030.3	5168.4	5308.4	5463.0	5620.2	5781.8	5954.2	56
57	4641.5	4768.6	4898.4	5032.6	5170.7	5310.7	5465.5	5622.9	5784.5	5957.1	57
58	4643.5	4770.7	4900.6	5034.9	5173.0	5313.0	5468.0	5625.5	5787.2	5960.0	58
59	4645.5	4772.8	4902.8	5037.2	5175.3	5315.3	5470.5	5628.2	5790.0	5962.9	59

M.	70 Deg.	71 Deg.	72 Deg.	73 Deg.	74 Deg.	75 Deg.	76 Deg.	77 Deg.	78 Deg.	79 Deg.	M.
0	5965.0	6145.7	6334.9	6534.5	6745.7	6970.3	7210.1	7467.2	7744.6	8045.7	0
1	5966.0	6146.8	6336.1	6537.9	6749.4	6974.2	7214.2	7471.7	7749.4	8051.0	1
2	5971.0	6151.9	6341.4	6541.3	6753.0	6978.1	7218.3	7476.1	7754.2	8056.2	2
3	5974.7	6155.0	6344.6	6544.7	6756.0	6981.9	7222.5	7480.6	7759.0	8061.5	3
4	5977.7	6158.0	6347.8	6548.2	6760.3	6985.8	7226.6	7485.0	7763.9	8066.8	4
5	5980.6	6161.1	6351.1	6551.6	6763.9	6989.7	7230.8	7489.5	7768.7	8072.0	5
6	5983.5	6164.2	6354.3	6555.0	6767.6	6993.6	7234.9	7494.0	7773.5	8077.3	6
7	5986.5	6167.3	6357.6	6558.5	6771.2	6997.5	7239.1	7498.5	7778.4	8082.6	7
8	5989.4	6170.4	6360.9	6561.9	6774.9	7001.4	7243.3	7502.9	7783.2	8087.9	8
9	5992.4	6173.5	6364.1	6565.4	6778.5	7005.3	7247.5	7507.4	7788.1	8093.2	9
10	5995.3	6176.6	6367.4	6568.8	6782.2	7009.2	7251.6	7511.9	7793.0	8098.5	10
11	5998.3	6179.7	6370.6	6572.3	6785.8	7013.1	7255.8	7516.4	7797.8	8103.8	11
12	6001.2	6182.8	6373.9	6575.7	6789.5	7017.0	7260.0	7520.9	7802.7	8109.2	12
13	6004.2	6185.9	6377.2	6579.2	6793.2	7020.9	7264.2	7525.4	7807.6	8114.5	13
14	6007.1	6189.0	6380.5	6582.6	6796.9	7024.8	7268.4	7530.0	7812.5	8119.8	14
15	6010.1	6192.1	6383.7	6586.1	6800.5	7028.7	7272.6	7534.5	7817.4	8125.2	15
16	6013.0	6195.2	6387.0	6589.5	6804.2	7032.7	7276.8	7539.0	7822.3	8130.6	16
17	6016.0	6198.3	6390.3	6593.0	6807.9	7036.6	7281.0	7543.6	7827.2	8135.9	17
18	6019.0	6201.4	6393.6	6596.5	6811.6	7040.5	7285.2	7548.1	7832.2	8141.3	18
19	6021.9	6204.6	6396.9	6600.0	6815.3	7044.5	7289.4	7552.7	7837.1	8146.7	19
20	6024.9	6207.7	6400.2	6603.4	6819.0	7048.4	7293.7	7557.2	7842.0	8152.1	20
21	6027.9	6210.8	6403.5	6606.9	6822.7	7252.4	7297.9	7561.8	7847.0	8157.5	21
22	6030.8	6213.9	6406.8	6610.4	6826.4	7056.3	7302.1	7566.3	7851.9	8162.9	22
23	6033.8	6217.1	6410.1	6613.9	6830.1	7060.2	7306.4	7570.9	7856.9	8168.3	23
24	6036.8	6220.2	6413.4	6617.4	6833.8	7064.2	7310.6	7575.5	7861.9	8173.7	24
25	6039.8	6223.3	6416.7	6620.9	6837.6	7068.2	7314.9	7580.1	7866.8	8179.2	25
26	6042.7	6226.5	6420.0	6624.4	6841.3	7072.2	7319.1	7584.7	7871.8	8184.6	26
27	6045.7	6229.6	6423.3	6627.9	6845.0	7076.2	7323.4	7589.3	7876.8	8190.1	27
28	6048.7	6232.7	6426.6	6631.4	6848.7	7080.1	7327.7	7593.9	7881.8	8195.5	28
29	6051.7	6235.9	6429.9	6635.0	6852.5	7084.1	7332.0	7598.5	7886.8	8201.0	29
30	6054.7	6239.0	6433.2	6638.5	6856.2	7088.1	7336.2	7603.1	7891.8	8206.5	30
31	6057.7	6242.2	6436.6	6642.0	6860.0	7092.1	7340.4	7607.7	7896.8	8212.0	31
32	6060.7	6245.3	6439.9	6645.5	6863.7	7096.1	7344.8	7612.3	7901.8	8217.5	32
33	6063.7	6248.5	6443.2	6649.1	6867.5	7100.1	7349.1	7617.0	7906.9	8223.0	33
34	6066.7	6251.7	6446.6	6652.6	6871.2	7104.1	7353.4	7621.6	7911.9	8228.5	34
35	6069.7	6254.8	6449.9	6656.1	6875.0	7108.2	7357.7	7626.3	7917.0	8234.1	35
36	6072.7	6258.0	6453.3	6659.7	6878.7	7112.2	7362.0	7630.9	7922.1	8239.6	36
37	6075.7	6261.2	6456.6	6663.2	6882.5	7116.2	7366.4	7635.6	7927.1	8245.1	37
38	6078.8	6264.4	6460.0	6666.8	6886.3	7120.2	7370.7	7640.2	7932.2	8250.7	38
39	6081.8	6267.5	6463.3	6670.3	6890.1	7124.3	7375.0	7644.9	7937.3	8256.3	39
40	6084.8	6270.7	6466.7	6673.9	6893.8	7128.3	7379.4	7649.6	7942.4	8261.8	40
41	6087.8	6273.9	6470.0	6677.4	6897.6	7132.3	7383.7	7654.3	7947.5	8267.4	41
42	6090.8	6277.1	6473.4	6681.0	6901.4	7136.4	7388.0	7659.0	7952.6	8273.0	42
43	6093.9	6280.3	6476.8	6684.6	6905.2	7140.4	7392.4	7663.7	7957.7	8278.6	43
44	6096.9	6283.5	6480.1	6688.1	6909.0	7144.5	7396.8	7668.4	7962.8	8284.2	44
45	6099.9	6286.6	6483.5	6691.7	6912.8	7148.6	7401.1	7673.1	7967.9	8289.9	45
46	6103.0	6289.8	6486.9	6695.3	6916.6	7152.6	7405.5	7677.8	7973.1	8295.6	46
47	6106.0	6293.0	6490.3	6698.9	6920.4	7156.7	7409.9	7682.6	7978.2	8301.1	47
48	6109.1	6296.2	6493.6	6702.4	6924.2	7160.8	7414.2	7687.3	7983.4	8306.8	48
49	6112.1	6299.4	6497.0	6706.0	6928.1	7164.9	7418.6	7692.0	7988.5	8312.4	49
50	6115.1	6302.7	6500.4	6709.6	6931.9	7169.0	7423.0	7696.8	7993.7	8318.1	50
51	6118.2	6305.9	6503.8	6713.2	6935.7	7173.0	7427.4	7701.5	7998.9	8323.8	51
52	6121.2	6309.1	6507.2	6716.8	6939.5	7177.1	7431.8	7706.3	8004.0	8329.4	52
53	6124.3	6312.2	6510.6	6720.4	6943.4	7181.2	7436.2	7711.0	8009.2	8335.1	53
54	6127.4	6315.5	6514.0	6724.0	6947.2	7185.3	7440.6	7715.8	8014.4	8340.8	54
55	6130.4	6318.7	6517.4	6727.6	6951.1	7189.5	7445.0	7720.6	8019.6	8346.6	55
56	6133.5	6322.0	6520.8	6731.2	6954.9	7193.6	7449.5	7725.4	8024.8	8352.3	56
57	6136.5	6325.2	6524.2	6734.9	6958.8	7197.7	7453.9	7730.2	8030.0	8358.0	57
58	6139.6	6328.4	6527.6	6738.5	6962.6	7201.8	7458.3	7735.0	8035.3	8363.7	58
59	6142.7	6331.7	6531.0	6742.1	6966.5	7205.9	7462.8	7739.8	8040.5	8369.5	59

M.	80 Deg.	81 Deg.	82 Deg.	83 Deg.	84 Deg.	85 Deg.	86 Deg.	87 Deg.	88 Deg.	89 Deg.	M.
0	8375 3	8730 1	9145 5	9605 9	10137 0	10764 7	11532 6	12522	13917	16200	0
1	8381 0	8745 5	9152 7	9614 1	10146 6	10776 2	11547 0	12541	13945	16237	1
2	8386 8	8751 9	9159 9	9622 4	10156 2	10787 7	11561 4	12561	13974	16416	2
3	8392 6	8758 3	9167 2	9630 6	10165 8	10799 3	11575 9	12580	14004	16478	3
4	8398 3	8764 8	9174 4	9638 9	10175 4	10810 8	11590 5	12600	14033	16537	4
5	8404 1	8771 2	9181 6	9647 2	10185 1	10822 6	11605 0	12619	14063	16599	5
6	8409 9	8777 7	9188 9	9655 5	10194 8	10834 2	11619 7	12639	14093	16662	6
7	8415 8	8784 1	9196 2	9663 8	10204 6	10845 9	11634 5	12659	14123	16726	7
8	8421 6	8790 6	9203 5	9672 2	10214 4	10857 7	11649 3	12679	14154	16792	8
9	8427 4	8797 1	9210 8	9680 6	10224 2	10869 6	11664 1	12699	14185	16858	9
10	8433 3	8803 6	9218 1	9689 0	10234 0	10881 6	11679 1	12719	14216	16926	10
11	8439 1	8810 1	9225 4	9697 4	10243 8	10893 6	11694 0	12739	14247	16996	11
12	8445 0	8816 6	9232 7	9705 8	10253 7	10905 6	11709 1	12759	14279	17067	12
13	8450 9	8823 2	9240 2	9714 2	10263 6	10917 2	11724 2	12780	14311	17140	13
14	8456 8	8829 7	9247 6	9722 7	10273 5	10929 1	11739 4	12801	14343	17213	14
15	8462 6	8836 3	9255 0	9731 2	10283 5	10941 2	11754 7	12821	14376	17288	15
16	8468 5	8842 8	9262 4	9739 7	10293 5	10953 3	11770 0	12842	14409	17366	16
17	8474 5	8849 4	9269 9	9748 3	10303 5	10965 5	11785 4	12863	14442	17444	17
18	8480 4	8856 0	9277 3	9756 8	10313 6	10977 7	11800 9	12885	14475	17525	18
19	8486 3	8862 6	9284 8	9765 4	10323 7	10989 9	11816 4	12906	14509	17609	19
20	8492 3	8869 3	9292 3	9774 0	10333 8	11002 2	11832 0	12927	14543	17695	20
21	8498 2	8875 9	9299 8	9782 7	10344 0	11014 5	11847 6	12949	14578	17780	21
22	8504 2	8882 6	9307 3	9791 3	10354 1	11026 9	11863 4	12971	14613	17870	22
23	8510 2	8889 2	9314 8	9800 0	10364 3	11039 3	11879 2	12992	14648	17962	23
24	8516 2	8895 9	9322 4	9808 6	10374 5	11051 7	11895 1	13014	14684	18056	24
25	8522 2	8902 6	9330 0	9817 3	10384 8	11064 2	11911 0	13037	14720	18153	25
26	8528 2	8909 3	9337 6	9826 1	10395 0	11076 8	11927 1	13059	14756	18252	26
27	8534 2	8916 0	9345 2	9834 8	10405 3	11089 3	11943 2	13081	14793	18356	27
28	8540 2	8922 7	9352 8	9843 6	10415 7	11102 0	11959 3	13104	14830	18461	28
29	8546 2	8929 5	9360 4	9852 4	10426 2	11114 6	11975 6	13126	14868	18570	29
30	8552 3	8936 2	9368 1	9861 3	10436 6	11127 4	11991 9	13149	14906	18682	30
31	8558 4	8943 0	9375 8	9870 1	10447 1	11140 1	12008 4	13172	14944	18799	31
32	8564 4	8949 8	9383 5	9879 0	10457 5	11152 9	12024 9	13195	14983	18920	32
33	8570 5	8956 6	9391 2	9887 8	10468 0	11165 8	12041 5	13219	15022	19045	33
34	8576 6	8963 4	9398 9	9896 7	10478 5	11178 7	12058 2	13242	15062	19174	34
35	8582 7	8970 2	9406 6	9905 7	10489 1	11191 7	12074 9	13266	15102	19309	35
36	8588 9	8977 1	9414 4	9914 6	10499 7	11204 7	12091 7	13290	15143	19449	36
37	8595 0	8983 9	9422 1	9923 6	10510 4	11217 7	12108 6	13314	15184	19596	37
38	8601 1	8990 8	9429 9	9932 7	10521 1	11230 8	12125 6	13338	15226	19749	38
39	8607 3	8997 7	9437 8	9941 7	10531 8	11244 0	12142 7	13362	15268	19908	39
40	8613 5	9004 6	9445 6	9950 8	10542 6	11257 2	12159 9	13387	15311	20076	40
41	8619 6	9011 5	9453 4	9959 8	10553 3	11270 5	12177 1	13411	15354	20252	41
42	8625 8	9018 4	9461 3	9968 9	10564 1	11283 8	12194 4	13436	15398	20438	42
43	8632 0	9025 4	9469 1	9978 0	10574 9	11297 1	12211 8	13461	15442	20635	43
44	8638 2	9032 3	9477 0	9987 2	10585 8	11310 5	12229 3	13486	15487	20843	44
45	8644 5	9039 3	9484 9	9996 3	10596 7	11324 0	12246 9	13512	15533	21065	45
46	8650 7	9046 3	9492 9	10005 5	10607 6	11337 6	12264 6	13537	15579	21302	46
47	8656 9	9053 3	9500 8	10014 8	10618 6	11351 1	12282 4	13563	15625	21557	47
48	8663 2	9060 3	9508 8	10024 0	10629 7	11364 8	12300 2	13589	15673	21832	48
49	8669 5	9067 3	9516 8	10033 3	10640 8	11378 4	12318 1	13615	15721	22132	49
50	8675 7	9074 4	9524 8	10042 6	10651 9	11392 2	12336 3	13641	15770	22459	50
51	8682 0	9081 4	9532 9	10051 9	10663 0	11406 0	12354 4	13668	15819	22821	51
52	8688 3	9088 5	9540 9	10061 3	10674 1	11419 8	12372 7	13694	15869	23226	52
53	8694 6	9095 6	9548 9	10070 6	10685 3	11433 7	12391 0	13721	15920	23685	53
54	8701 0	9102 7	9557 0	10080 0	10696 5	11447 7	12409 5	13749	15972	24215	54
55	8707 3	9109 8	9565 1	10089 4	10707 7	11461 7	12428 0	13776	16025	24849	55
56	8713 6	9116 9	9573 2	10098 9	10719 1	11475 8	12446 5	13804	16078	25609	56
57	8720 0	9124 0	9581 4	10108 4	10730 4	11489 9	12465 3	13831	16132	26398	57
58	8726 4	9131 3	9589 5	10117 9	10741 8	11504 1	12484 2	13859	16187	27292	58
59	8732 7	9138 4	9597 7	10127 4	10753 3	11518 3	12503 1	13888	16243	30375	59

MEAN REFRACTION OF CELESTIAL OBJECTS FOR TEMPERATURE
50°, AND PRESSURE 29.6 INCHES.

Alt.	Refr.	Alt.	Refr.	Alt.	Refr.	Alt.	Refr.	Alt.	Refr.	Alt.	Refr.	Alt.	Refr.				
0	0	33	0	30	10 48	9	0	5 48	17	0	3 04	26	0	1 56	30	0 56	
5	32	10	35	10 39	5	5	5 45	10	3 03	10	1 55	40	0	1 55	30	0 55	
10	31	22	40	10 29	10	5	5 42	20	3 01	20	1 53	30	0	1 53	30	0 54	
15	30	36	45	10 20	15	5	5 39	30	2 59	30	1 54	47	0	1 54	30	0 53	
20	29	50	50	10 11	20	5	5 36	40	2 57	40	1 53	30	0	1 53	30	0 52	
25	29	06	55	10 02	25	5	5 34	50	2 55	50	1 52	48	0	1 52	30	0 51	
30	28	23	5	9 54	30	5	5 31	18	0	2 54	27	0	1 51	30	0 50		
35	27	41	5	9 46	35	5	5 28	10	2 52	15	1 50	49	0	1 50	30	0 49	
40	27	00	10	9 38	40	5	5 25	20	2 51	30	1 49	30	0	1 49	30	0 48	
45	26	20	15	9 30	45	5	5 23	30	2 49	45	1 48	50	0	1 48	30	0 47	
50	25	42	20	9 23	50	5	5 20	40	2 47	28	0	1 47	51	0	1 47	30	0 46
55	25	05	25	9 15	55	5	5 18	50	2 46	15	1 46	51	0	1 46	30	0 45	
1	0	24	30	9 08	10	0	5 15	19	0	2 44	30	1 45	52	0	1 45	30	0 44
5	23	54	35	9 01	10	5	5 10	10	2 43	45	1 44	52	0	1 44	30	0 44	
10	23	20	40	8 54	20	5	5 05	20	2 41	29	0	1 43	53	0	1 43	30	0 43
15	22	47	45	8 47	30	5	5 00	30	2 40	20	1 41	53	0	1 41	30	0 42	
20	22	15	50	8 41	40	4	5 00	40	2 38	40	1 40	54	0	1 40	30	0 41	
25	21	44	55	8 34	50	4	4 51	50	2 37	30	1 38	54	0	1 38	30	0 41	
30	21	15	6	8 28	11	0	4 47	20	2 35	20	1 37	55	0	1 37	30	0 40	
35	20	46	5	8 21	10	4	4 41	10	2 34	40	1 36	55	0	1 36	30	0 40	
40	20	18	10	8 15	20	4	4 39	20	2 32	31	0	1 35	57	0	1 35	30	0 37
45	19	51	15	8 09	30	4	4 34	30	2 31	20	1 33	58	0	1 33	30	0 35	
50	19	23	20	8 03	40	4	4 31	40	2 29	40	1 32	59	0	1 32	30	0 34	
55	19	00	25	7 57	50	4	4 27	50	2 28	32	0	1 31	60	0	1 31	30	0 33
2	0	18	35	7 51	12	0	4 23	21	0	2 27	20	1 30	61	0	1 30	30	0 32
5	18	11	35	7 45	10	4	4 20	10	2 26	40	1 29	62	0	1 29	30	0 30	
10	17	48	40	7 40	20	4	4 16	20	2 25	33	0	1 28	63	0	1 28	30	0 29
15	17	20	45	7 35	30	4	4 13	30	2 24	20	1 28	64	0	1 28	30	0 28	
20	17	04	50	7 30	40	4	4 09	40	2 23	40	1 25	65	0	1 25	30	0 26	
25	16	44	55	7 25	50	4	4 06	50	2 21	34	0	1 24	66	0	1 24	30	0 25
30	16	24	7	7 20	13	0	4 03	22	0	2 20	20	1 23	67	0	1 23	30	0 24
35	16	04	5	7 15	10	4	4 00	10	2 19	40	1 22	68	0	1 22	30	0 23	
40	15	45	10	7 11	20	3	3 57	20	2 18	35	0	1 21	69	0	1 21	30	0 22
45	15	27	15	7 06	30	3	3 54	30	2 17	20	1 20	70	0	1 20	30	0 21	
50	15	09	20	7 02	40	3	3 51	40	2 16	40	1 19	71	0	1 19	30	0 19	
55	14	52	25	6 57	50	3	3 48	50	2 15	36	0	1 18	72	0	1 18	30	0 18
3	0	14	30	6 53	14	0	3 45	23	0	2 14	30	1 17	73	0	1 17	30	0 17
5	14	30	35	6 49	10	3	3 43	10	2 13	37	0	1 16	74	0	1 16	30	0 16
10	14	04	40	6 45	20	3	3 40	20	2 12	30	1 14	75	0	1 14	30	0 15	
15	13	39	45	6 41	30	3	3 38	30	2 11	38	0	1 13	76	0	1 13	30	0 14
20	13	34	50	6 37	40	3	3 35	40	2 10	30	1 11	77	0	1 11	30	0 13	
25	13	20	55	6 33	50	3	3 33	50	2 09	39	0	1 10	78	0	1 10	30	0 12
30	13	06	8	6 29	15	0	3 30	24	0	2 08	30	1 09	79	0	1 09	30	0 11
35	12	53	5	6 25	10	3	3 28	10	2 07	40	0	1 08	80	0	1 08	30	0 10
40	12	40	10	6 22	20	3	3 26	20	2 06	30	1 07	81	0	1 07	30	0 9	
45	12	27	15	6 18	30	3	3 24	30	2 05	41	0	1 05	82	0	1 05	30	0 8
50	12	15	20	6 15	40	3	3 21	40	2 04	30	1 04	83	0	1 04	30	0 7	
55	12	03	25	6 11	50	3	3 19	50	2 03	42	0	1 03	84	0	1 03	30	0 6
4	0	11	30	6 08	16	0	3 17	25	0	2 02	30	1 02	85	0	1 02	30	0 5
5	11	40	35	6 05	10	3	3 15	10	2 01	43	0	1 01	86	0	1 01	30	0 4
10	11	29	40	6 01	20	3	3 12	20	2 00	30	1 00	87	0	1 00	30	0 3	
15	11	18	45	5 58	30	3	3 10	30	1 59	44	0	0 59	88	0	0 59	30	0 2
20	11	08	50	5 55	40	3	3 08	40	1 58	30	0 58	89	0	0 58	30	0 1	
25	10	58	55	5 52	50	3	3 06	50	1 57	45	0	0 57	90	0	0 57	30	0 0

CORRECTION OF MEAN REFRACTION.

Ap. Alt.	Height of the Thermometer.															
	20°	24°	28°	32°	36°	40°	44°	48°	52°	56°	60°	64°	68°	72°	76°	80°
0° 0'	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0° 10'	2.32	2.12	1.53	1.33	1.11	.51	.31	.10	10	29	40	1.7	1.25	1.43	9.1	2.19
0° 20'	2.32	2.12	1.49	1.28	1.08	.48	.29	.10	9	27	45	1.4	1.21	1.38	1.54	2.12
0° 30'	2.25	2.05	1.44	1.24	1.04	.44	.28	.9	9	26	44	1.1	1.17	1.33	1.49	2.05
0° 40'	2.18	1.59	1.39	1.20	1.01	.44	.26	.9	8	25	41	.58	1.13	1.28	1.43	1.59
0° 50'	2.11	1.53	1.34	1.16	.98	.42	.25	.8	8	24	39	.55	1.10	1.24	1.38	1.53
1° 0'	2.05	1.48	1.29	1.12	.95	.40	.24	.8	8	23	37	.52	1.07	1.20	1.34	1.48
1° 10'	1.59	1.43	1.25	1.09	.93	.38	.23	.8	8	21	36	.50	1.04	1.17	1.30	1.43
1° 20'	1.53	1.38	1.21	1.06	.90	.36	.22	.7	7	20	34	.48	1.01	1.13	1.26	1.38
1° 30'	1.48	1.33	1.17	1.03	.88	.34	.21	.7	7	19	32	.45	.97	1.09	1.21	1.33
1° 40'	1.43	1.29	1.14	1.00	.86	.32	.20	.7	7	18	31	.43	.94	1.06	1.18	1.29
1° 50'	1.39	1.25	1.11	.97	.84	.31	.18	.6	6	18	30	.41	.92	1.04	1.15	1.25
2° 0'	1.35	1.21	1.08	.95	.82	.30	.17	.6	6	17	28	.39	.90	1.01	1.11	1.21
2° 10'	1.31	1.18	1.05	.93	.80	.29	.17	.6	5	16	27	.37	.88	.98	1.08	1.18
2° 20'	1.27	1.14	1.01	.89	.77	.26	.16	.5	5	15	25	.35	.86	.96	1.06	1.16
2° 30'	1.23	1.10	.97	.85	.74	.24	.14	.5	5	14	23	.32	.84	.94	1.04	1.14
2° 40'	1.17	1.06	.95	.84	.74	.24	.14	.5	5	14	23	.32	.84	.94	1.04	1.14
3° 0'	1.11	1.01	.91	.81	.71	.22	.13	.4	4	13	21	.30	.82	.92	1.02	1.12
3° 10'	1.06	.97	.87	.77	.67	.21	.13	.4	4	12	20	.28	.80	.90	1.00	1.10
3° 20'	1.02	.93	.84	.74	.64	.20	.12	.4	4	11	18	.26	.78	.88	0.98	1.08
3° 30'	.98	.89	.80	.71	.61	.19	.11	.4	4	10	17	.24	.76	.86	0.96	1.06
3° 40'	.93	.85	.76	.67	.57	.18	.10	.3	3	9	16	.22	.74	.84	0.94	1.04
3° 50'	.88	.81	.72	.63	.54	.17	.09	.3	3	9	14	.20	.72	.82	0.92	1.02
4° 0'	.85	.78	.69	.60	.51	.16	.08	.3	3	8	13	.19	.70	.80	0.90	1.00
4° 10'	.81	.74	.65	.56	.47	.15	.08	.3	2	7	12	.17	.68	.78	0.88	0.98
4° 20'	.78	.71	.62	.53	.44	.14	.07	.2	2	7	11	.15	.66	.76	0.86	0.96
4° 30'	.75	.68	.59	.50	.41	.13	.07	.2	2	6	10	.14	.64	.74	0.84	0.94
4° 40'	.72	.65	.56	.47	.38	.12	.06	.2	2	5	9	.13	.62	.72	0.82	0.92
4° 50'	.69	.62	.53	.44	.35	.11	.05	.2	2	5	8	.11	.60	.70	0.80	0.90
5° 0'	.66	.59	.50	.41	.32	.10	.05	.2	2	5	8	.11	.58	.68	0.78	0.88
5° 10'	.63	.56	.47	.38	.29	.09	.04	.1	1	4	7	.10	.56	.66	0.76	0.86
5° 20'	.60	.53	.44	.35	.26	.08	.04	.1	1	4	7	.09	.54	.64	0.74	0.84
5° 30'	.57	.50	.41	.32	.23	.07	.03	.1	1	4	7	.08	.52	.62	0.72	0.82
5° 40'	.54	.47	.38	.29	.20	.06	.03	.1	1	3	6	.08	.50	.60	0.70	0.80
5° 50'	.51	.44	.35	.26	.17	.05	.02	.1	1	3	5	.07	.48	.58	0.68	0.78
6° 0'	.48	.41	.32	.23	.14	.04	.02	.1	1	3	5	.06	.46	.56	0.66	0.76
6° 10'	.45	.38	.29	.20	.11	.03	.01	.1	1	3	4	.06	.44	.54	0.64	0.74
6° 20'	.42	.35	.26	.17	.08	.02	.01	.1	1	2	4	.05	.42	.52	0.62	0.72
6° 30'	.39	.32	.23	.14	.05	.01	.00	.1	1	2	4	.05	.40	.50	0.60	0.70
6° 40'	.36	.29	.20	.11	.02	.00	.00	.1	1	2	3	.04	.38	.48	0.58	0.68
6° 50'	.33	.26	.17	.08	.01	.00	.00	.1	1	2	3	.04	.36	.46	0.56	0.66
7° 0'	.30	.23	.14	.05	.00	.00	.00	.1	1	2	3	.03	.34	.44	0.54	0.64
7° 10'	.27	.20	.11	.02	.00	.00	.00	.1	1	2	3	.03	.32	.42	0.52	0.62
7° 20'	.24	.17	.08	.01	.00	.00	.00	.1	1	2	3	.03	.30	.40	0.50	0.60
7° 30'	.21	.14	.05	.00	.00	.00	.00	.1	1	2	3	.02	.28	.38	0.48	0.58
7° 40'	.18	.11	.02	.00	.00	.00	.00	.1	1	2	3	.02	.26	.36	0.46	0.56
7° 50'	.15	.08	.01	.00	.00	.00	.00	.1	1	2	3	.02	.24	.34	0.44	0.54
8° 0'	.12	.05	.00	.00	.00	.00	.00	.1	1	2	3	.02	.22	.32	0.42	0.52
8° 10'	.09	.02	.00	.00	.00	.00	.00	.1	1	2	3	.01	.20	.30	0.40	0.50
8° 20'	.06	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.18	.28	0.38	0.48
8° 30'	.03	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.16	.26	0.36	0.46
8° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.14	.24	0.34	0.44
8° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.12	.22	0.32	0.42
9° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.10	.20	0.30	0.40
9° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.08	.18	0.28	0.38
9° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.06	.16	0.26	0.36
9° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.04	.14	0.24	0.34
9° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.02	.12	0.22	0.32
9° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.10	0.20	0.30
10° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.08	0.18	0.28
10° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.06	0.16	0.26
10° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.04	0.14	0.24
10° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.02	0.12	0.22
10° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	0.10	0.20
10° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.08	0.18
11° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.06	0.16
11° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.04	0.14
11° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.02	0.12
11° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.10
11° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.08
11° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.06
12° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.04
12° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.02
12° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
12° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
12° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
12° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
13° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
13° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
13° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
13° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
13° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
13° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
14° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
14° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
14° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
14° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
14° 40'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
14° 50'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
15° 0'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
15° 10'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
15° 20'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
15° 30'	.00	.00	.00	.00	.00	.00	.00	.1	1	2	3	.01	.00	.00	.00	0.00
15° 40'</																

APPARENT DEPRESSION OF THE HORIZON

H denotes the height of the eye in feet, and D the dip in minutes and seconds.

H.	D.	H.	D.	H.	D.
'	"	'	"	'	"
1	0 59	16	3 52	35	5 43
2	1 22	17	3 59	40	6 7
3	1 40	18	4 6	45	6 29
4	1 56	19	4 13	50	6 51
5	2 10	20	4 20	55	7 11
6	2 21	21	4 26	60	7 30
7	2 31	22	4 32	65	7 48
8	2 43	23	4 38	70	8 6
9	2 54	24	4 45	75	8 23
10	3 3	25	4 51	80	8 39
11	3 12	26	4 56	85	8 55
12	3 21	27	5 2	90	9 11
13	3 30	28	5 8	95	9 26
14	3 37	29	5 13	100	9 41
15	3 45	30	5 18	110	10 9

DIP OF THE SEA AT DIFFERENT DISTANCES.

Dist. of the Land.	Height of the Eye above the Sea, in Feet.							
	5	10	15	20	25	30	35	40
Naut. Miles	dip.	dip.	dip.	dip.	dip.	dip.	dip.	dip.
	m.	m.	m.	m.	m.	m.	m.	m.
$\frac{1}{2}$	11	22	34	45	56	68	79	90
$\frac{1}{4}$	6	11	17	22	28	34	39	45
$\frac{3}{4}$	4	8	12	15	19	23	27	30
1	4	6	9	12	15	17	20	23
$1\frac{1}{4}$	3	5	7	9	12	14	16	19
$1\frac{1}{2}$	3	4	6	8	10	12	14	15
2	2	3	5	6	8	10	11	12
$2\frac{1}{4}$	2	3	5	6	7	8	9	10
3	2	3	4	5	6	7	8	8
$3\frac{1}{4}$	2	3	4	5	6	6	7	7
4	2	3	4	4	5	6	7	7
5	2	3	4	4	5	5	6	6
6	2	3	4	4	5	5	6	6

CONTRACTION OF SEMIDIAMETERS OF SUN AND MOON.

Inclin. of Semid. to Horizon.	Apparent Altitude of Sun and Moon.						
	0°	10°	12°	14°	20°	32°	90°
°	"	"	"	"	"	"	"
12	0	0	0	0	0	0	0
15	0	1	0	0	0	0	0
18	0	1	1	0	0	0	0
21	0	1	1	1	0	0	0
24	0	1	1	1	0	0	0
27	0	2	1	1	0	0	0
30	0	2	1	1	1	0	0
33	0	2	2	1	1	0	0
36	0	3	2	1	1	0	0
39	0	3	2	2	1	0	0
42	0	4	2	2	1	0	0
45	0	4	3	2	1	0	0
48	0	4	3	2	1	0	0
51	0	5	3	3	1	1	0
54	0	5	4	3	1	1	0
57	0	5	4	3	1	1	0
60	0	6	4	3	2	1	0
63	0	6	4	3	2	1	0
66	0	6	5	3	2	1	0
69	0	7	5	4	2	1	0
72	0	7	5	4	2	1	0
75	0	7	5	4	2	1	0
78	0	7	5	4	2	1	0
81	0	8	5	4	2	1	0
84	0	8	5	4	2	1	0
90	0	8	5	4	2	1	0

REDUCTION OF MOON'S EQUATORIAL PARALLAX.

Lat.	Registered Parallax.		
	54'	57'	60'
°	"	"	"
8	0	0	0
12	1	1	1
16	1	1	1
20	2	2	2
24	2	2	2
28	3	3	3
32	4	4	4
36	5	5	5
40	6	6	6
44	7	7	8
48	8	8	9
52	9	9	10
56	10	10	11
60	10	11	12
64	11	12	13
68	12	13	13
72	13	13	14
76	13	14	14
80	14	14	15
84	14	15	15
90	15	15	16

CORRECTION OF MOON'S MERIDIAN PASSAGE.

Long.	Daily Variation of Moon's Meridian Passage.									
	30'	42'	45'	48'	51'	54'	57'	60'	63'	66'
0	1	1	1	1	1	1	2	2	2	2
10	2	2	2	3	3	3	3	3	3	4
20	3	3	3	4	4	4	5	5	5	5
30	4	5	5	5	5	6	6	7	7	7
40	5	6	6	6	7	7	8	8	8	9
50	6	7	7	8	8	9	9	10	10	11
60	7	8	8	9	10	10	11	11	12	12
70	8	9	10	10	11	12	12	13	13	14
80	10	10	11	12	12	13	14	14	15	16
90	11	11	12	13	14	4	15	16	17	18
100	12	12	13	14	15	16	17	18	18	19
110	13	13	15	15	16	17	18	19	20	21
120	14	15	16	17	18	19	20	21	22	23
130	15	16	17	18	19	20	21	22	23	25
140	16	17	18	19	21	22	23	24	25	26
150	17	18	19	21	22	23	24	26	27	28
160	18	19	21	22	23	24	26	27	28	30
170	19	20	22	23	25	26	27	29	30	32
180										

AUGMENTATION OF MOON'S SEMIDIAMETER.

Moon's App. Alt.	Moon's Horizontal Diameter.					
	14° 30'	15° 0'	15° 30'	16° 0'	16° 30'	17° 0'
0	0	0	0	0	0	0
3	0	0	1	1	1	1
6	1	1	2	2	2	2
9	2	2	2	2	3	3
12	3	3	3	3	4	4
15	4	4	4	4	5	5
18	4	4	5	5	5	6
21	5	5	6	6	6	7
24	5	6	6	6	7	7
27	6	6	7	7	8	8
30	7	7	8	8	9	9
33	7	8	8	9	10	10
36	8	9	9	10	10	11
39	8	9	10	10	11	12
42	9	10	10	11	12	12
45	9	10	11	12	12	13
48	10	11	12	12	13	14
51	10	11	12	13	14	14
54	11	12	13	13	14	15
57	11	12	13	14	15	16
60	12	13	14	14	15	16
63	12	13	14	15	16	17
66	13	13	14	15	16	17
69	13	14	15	16	17	18
72	13	14	15	16	17	18
75	13	14	15	16	17	18
78	13	14	15	16	17	18
81	14	14	15	16	18	19
84	14	15	16	17	18	19
87	14	15	16	17	18	19

SUN'S PARALLAX IN ALTITUDE.

Altitude.	0°	1°	15'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'	85'	90°
Parallax.	9"	9"	8"	8"	7"	7"	6"	6"	5"	5"	4"	4"	3"	3"	2"	1"

FOR REDUCING COMMON TO NATURAL LOGARITHMS
AND THE CONVERSE.

Com. Log.	Natural Log.	Com. Log.	Natural Log.	Com. Log.	Natural Log.	Com. Log.	Natural Log.	Com. Log.	Natural Log.
01	02302685	21	40364287	41	94405989	61	140457891	81	186300393
02	04905170	22	50656572	42	95708674	62	142768276	82	188811978
03	06907755	23	52958457	43	96911159	63	145082861	83	191114563
04	09210340	24	55260242	44	101313744	64	147365446	84	193417148
05	11512925	25	57564627	45	103616329	65	149608031	85	195719733
06	13815511	26	59867212	46	105918914	66	151970616	86	198022318
07	16118096	27	62169798	47	108221499	67	154273201	87	200324903
08	18420681	28	64472383	48	110524084	68	156575786	88	202627488
09	20723266	29	66774968	49	112826669	69	158878371	89	204930073
10	23025851	30	69077553	50	115129255	70	161180957	90	207232658
11	25328436	31	71380138	51	117431840	71	163483542	91	209535243
12	27631021	32	73682723	52	119734425	72	165786127	92	211837828
13	29933606	33	75985308	53	122037010	73	168088712	93	214140414
14	32236191	34	78287893	54	124339595	74	170391297	94	216442999
15	34538776	35	80590478	55	126642180	75	172693882	95	218745584
16	36841361	36	82893063	56	128944765	76	174996467	96	221048169
17	39143947	37	85195648	57	131247350	77	177299052	97	223350754
18	41446532	38	87498233	58	133549935	78	179601637	98	225653339
19	43749117	39	89800818	59	135852520	79	181904222	99	227955924
20	46051702	40	92103404	60	138155106	80	184206807	100	230258509

LENGTHS OF CIRCULAR ARCS.

D.	Arc.	D.	Arc.	D.	Arc.	M.	Arc.	Sec.	Arc.
1	0174533	61	10846508	121	21118484	1	0002900	1	48
2	0349006	62	10981041	122	21260017	2	5818	2	97
3	0523399	63	11095574	123	21407550	3	8727	3	145
4	0698132	64	11170107	124	21642083	4	11636	4	194
5	0872965	65	11344640	125	21816616	5	14544	5	242
6	1047198	66	11519173	126	21991149	6	17453	6	291
7	1221730	67	11693706	127	22165682	7	20362	7	339
8	1396263	68	11868239	128	22340215	8	23271	8	388
9	1570796	69	12042772	129	22514747	9	26180	9	436
10	1745329	70	12217305	130	22689280	10	29089	10	485
20	3490659	80	13952634	140	24434610	20	58178	20	970
30	5235088	90	15707963	150	26179939	30	87268	30	1454
40	6981317	100	17453293	160	27925268	40	116355	40	1939
50	8726546	110	19198622	170	29670597	50	145444	50	2424
60	10471976	120	20943951	180	31415927	60	174533	60	2909

TO REDUCE MEAN TO SIDEREAL TIME AND CONVERSELY.

Solar Days.	Add H. M. Sec.	Solar Hrs.	Add M. Sec.	Solar Min.	Add Sec.	Solar Min.	Add Sec.	Solar Sec.	Add Sec.	Solar Sec.	Add Sec.
1	0 3 55-55	1	0 9-56	1	0-16	31	5-09	1	0-00	31	0-09
2	0 7 53-11	2	0 19-71	2	0-33	32	5-26	2	0-01	32	0-09
3	0 11 49-67	3	0 29-57	3	0-49	33	5-42	3	0-01	33	0-09
4	0 15 46-23	4	0 39-43	4	0-66	34	5-59	4	0-01	34	0-09
5	0 19 42-78	5	0 49-28	5	0-82	35	5-75	5	0-01	35	0-10
6	0 23 39-34	6	0 59-14	6	0-99	36	5-91	6	0-02	36	0-10
7	0 27 35-89	7	1 9-00	7	1-15	37	6-08	7	0-02	37	0-10
8	0 31 32-45	8	1 18-55	8	1-32	38	6-24	8	0-02	38	0-11
9	0 35 29-00	9	1 28-71	9	1-48	39	6-41	9	0-03	39	0-11
10	0 39 25-56	10	1 38-57	10	1-64	40	6-57	10	0-03	40	0-11
11	0 43 22-12	11	1 48-43	11	1-81	41	6-74	11	0-03	41	0-11
12	0 47 18-67	12	1 58-28	12	1-97	42	6-90	12	0-03	42	0-12
13	0 51 15-23	13	2 8-13	13	2-14	43	7-06	13	0-04	43	0-12
14	0 55 11-78	14	2 17-99	14	2-30	44	7-23	14	0-04	44	0-12
15	0 59 8-34	15	2 27-85	15	2-46	45	7-39	15	0-04	45	0-13
16	1 3 4-90	16	2 37-70	16	2-63	46	7-56	16	0-04	46	0-13
17	1 7 1-45	17	2 47-56	17	2-79	47	7-72	17	0-05	47	0-13
18	1 10 58-01	18	2 57-42	18	2-96	48	7-89	18	0-05	48	0-13
19	1 14 54-56	19	3 7-27	19	3-12	49	8-05	19	0-05	49	0-14
20	1 18 51-12	20	3 17-13	20	3-29	50	8-21	20	0-06	50	0-14
21	1 22 47-68	21	3 26-99	21	3-45	51	8-38	21	0-06	51	0-14
22	1 26 44-23	22	3 36-84	22	3-61	52	8-54	22	0-06	52	0-14
23	1 30 40-79	23	3 46-70	23	3-78	53	8-71	23	0-06	53	0-15
24	1 34 37-34	24	3 56-56	24	3-94	54	8-87	24	0-07	54	0-15
25	1 38 33-90	25	4 6-40	25	4-11	55	9-04	25	0-07	55	0-15
26	1 42 30-45	26	4 16-26	26	4-27	56	9-20	26	0-07	56	0-16
27	1 46 27-01	27	4 26-13	27	4-44	57	9-36	27	0-08	57	0-16
28	1 50 23-57	28	4 36-00	28	4-60	58	9-53	28	0-08	58	0-16
29	1 54 20-12	29	4 45-46	29	4-76	59	9-69	29	0-08	59	0-16
30	1 58 16-68	30	4 55-31	30	4-93	60	9-86	30	0-08	60	0-16
Sid. Days.	Subtract H. M. Sec.	Sid. Hrs.	Subtract Min. Sec.	Sid. Min.	Subtr. Sec.	Sid. Min.	Subtr. Sec.	Sid. Sec.	Subtr. Sec.	Sid. Sec.	Sub. Sec.
1	0 3 55-91	1	0 9-83	1	0-16	31	5-08	1	0-00	31	0-09
2	0 7 51-42	2	0 19-66	2	0-33	32	5-24	2	0-01	32	0-09
3	0 11 47-72	3	0 29-49	3	0-49	33	5-41	3	0-01	33	0-09
4	0 15 43-03	4	0 39-32	4	0-66	34	5-57	4	0-01	34	0-09
5	0 19 38-54	5	0 49-15	5	0-82	35	5-73	5	0-01	35	0-10
6	0 23 34-45	6	0 58-98	6	0-98	36	5-90	6	0-02	36	0-10
7	0 27 30-36	7	1 8-81	7	1-15	37	6-06	7	0-02	37	0-10
8	0 31 26-26	8	1 18-64	8	1-31	38	6-23	8	0-02	38	0-10
9	0 35 22-17	9	1 28-47	9	1-47	39	6-39	9	0-03	39	0-11
10	0 39 18-08	10	1 38-30	10	1-64	40	6-55	10	0-03	40	0-11
11	0 43 14-00	11	1 48-12	11	1-80	41	6-72	11	0-03	41	0-11
12	0 47 10-00	12	1 57-55	12	1-97	42	6-88	12	0-03	42	0-12
13	0 51 6-00	13	2 7-38	13	2-13	43	7-04	13	0-04	43	0-12
14	0 55 2-71	14	2 17-21	14	2-29	44	7-21	14	0-04	44	0-12
15	0 58 58-62	15	2 27-04	15	2-45	45	7-37	15	0-04	45	0-12
16	1 2 54-53	16	2 36-87	16	2-62	46	7-54	16	0-04	46	0-13
17	1 6 50-44	17	2 46-70	17	2-79	47	7-70	17	0-05	47	0-13
18	1 10 46-34	18	2 56-53	18	2-95	48	7-86	18	0-05	48	0-13
19	1 14 42-25	19	3 6-36	19	3-11	49	8-03	19	0-05	49	0-13
20	1 18 38-16	20	3 16-19	20	3-28	50	8-19	20	0-06	50	0-14
21	1 22 34-07	21	3 26-02	21	3-44	51	8-36	21	0-06	51	0-14
22	1 26 29-58	22	3 35-45	22	3-60	52	8-52	22	0-06	52	0-14
23	1 30 25-48	23	3 45-28	23	3-77	53	8-68	23	0-06	53	0-15
24	1 34 21-39	24	3 55-11	24	3-93	54	8-85	24	0-07	54	0-15
25	1 38 17-30	25	4 5-74	25	4-10	55	9-01	25	0-07	55	0-15
26	1 42 13-21	26	4 15-57	26	4-26	56	9-17	26	0-07	56	0-15
27	1 46 9-52	27	4 25-41	27	4-43	57	9-34	27	0-07	57	0-16
28	1 50 5-42	28	4 35-24	28	4-59	58	9-50	28	0-08	58	0-16
29	1 54 1-33	29	4 45-07	29	4-75	59	9-67	29	0-08	59	0-16
30	1 57 57-24	30	4 54-50	30	4-92	60	9-83	30	0-08	60	0-16

FOR REDUCING LONGITUDE TO TIME.						FOR REDUCING TIME TO LONGITUDE.					
°	H. M.	°	II. M.	Degree.	Hours.	Hours.	Degree.	M. °		M. °	
'	M. S.	'	M. S.					S. ' "	' "	S. ' "	' "
"	S. T.	"	S. T.					T. " "	" "	T. " "	" "
1	0 4	31	2 4	70	4 40	1	15	1	0 15	31	7 45
2	0 8	32	2 8	80	5 20	2	30	2	0 30	32	8 0
3	0 12	33	2 12	90	6 0	3	45	3	0 45	33	8 15
4	0 16	34	2 16	100	6 40	4	60	4	1 0	34	8 30
5	0 20	35	2 20	110	7 20	5	75	5	1 15	35	8 45
6	0 24	36	2 24	120	8 0	6	90	6	1 30	36	9 0
7	0 28	37	2 28	130	8 40	7	105	7	1 45	37	9 15
8	0 32	38	2 32	140	9 20	8	120	8	2 0	38	9 30
9	0 36	39	2 36	150	10 0	9	135	9	2 15	39	9 45
10	0 40	40	2 40	160	10 40	10	150	10	2 30	40	10 0
11	0 44	41	2 44	170	11 20	11	165	11	2 45	41	10 15
12	0 48	42	2 48	180	12 0	12	180	12	3 0	42	10 30
13	0 52	43	2 52	190	12 40	13	195	13	3 15	43	10 45
14	0 56	44	2 56	200	13 20	14	210	14	3 30	44	11 0
15	1 0	45	3 0	210	14 0	15	225	15	3 45	45	11 15
16	1 4	46	3 4	220	14 40	16	240	16	4 0	46	11 30
17	1 8	47	3 8	230	15 20	17	255	17	4 15	47	11 45
18	1 12	48	3 12	240	16 0	18	270	18	4 30	48	12 0
19	1 16	49	3 16	250	16 40	19	285	19	4 45	49	12 15
20	1 20	50	3 20	260	17 20	20	300	20	5 0	50	12 30
21	1 24	51	3 24	270	18 0	21	315	21	5 15	51	12 45
22	1 28	52	3 28	280	18 40	22	330	22	5 30	52	13 0
23	1 32	53	3 32	290	19 20	23	345	23	5 45	53	13 15
24	1 36	54	3 36	300	20 0	24	360	24	6 0	54	13 30
25	1 40	55	3 40	310	20 40			25	6 15	55	13 45
26	1 44	56	3 44	320	21 20			26	6 30	56	14 0
27	1 48	57	3 48	330	22 0			27	6 45	57	14 15
28	1 52	58	3 52	340	22 40			28	7 0	58	14 30
29	1 56	59	3 56	350	23 20			29	7 15	59	14 45
30	2 0	60	4 0	360	24 0			30	7 30	60	15 0

LINKS TO BE SUBTRACTED FROM EACH CHAIN IN AN ASCENDING OR DESCENDING LINE, IN ORDER TO REDUCE IT TO THE HORIZONTAL PROJECTION.

PART I.				PART II.							
Deg.	Links.	D. M.	Links.	D. M.	Links.	D. M.	Links.	D. M.	Links.	D. M.	Links.
4	0-24	4° 3'	1	16° 46'	41	23° 26'	81	28° 39'	121		
5	0-38	5 44	1	17 15	41	23 48	81	28 57	121		
6	0-55	7 1	1	17 44	41	24 9	81	29 15	121		
7	0-75	8 7	1	18 13	5	24 30	9	29 32	13		
8	0-97	9 4	11	18 39	51	24 50	91	29 49	131		
9	1-23	9 56	11	19 5	51	25 11	91	30 7	131		
10	1-52	10 44	11	19 31	51	25 31	91	30 24	131		
11	1-84	11 29	2	19 57	6	25 51	10	30 41	14		
12	2-19	12 11	21	20 23	61	26 10	101	30 58	141		
13	2-56	12 50	21	20 46	61	26 29	101	31 14	141		
14	2-97	13 28	21	21 10	61	26 49	101	31 31	141		
15	3-41	14 4	3	21 34	7	27 8	11	31 47	15		
16	3-87	14 39	31	21 57	71	27 26	111	32 4	151		
17	4-37	15 12	31	22 20	71	27 45	111	32 20	151		
18	4-89	15 44	31	22 42	71	28 3	111	32 36	151		
19	5-45	16 16	4	23 4	8	28 21	12	32 52	16		

MEAN MOTION OF SUN FOR PERIODS OF MEAN TIME.

Mean Time.	Mean Motion.	Mean Time.	Mean Motion.	Mean Time.	Mean Motion.
h.	' "	m.	' "	s.	"
1	2 27-847	1	0 2-464	1	0-041
2	4 55-694	2	0 4-228	2	0-082
3	7 23-541	3	0 7-393	3	0-123
4	9 51-388	4	0 9-656	4	0-164
5	12 19-235	5	0 12-321	5	0-205
6	14 47-081	6	0 14-785	6	0-246
7	17 14-928	7	0 17-249	7	0-287
8	19 42-775	8	0 19-713	8	0-328
9	22 10-622	9	0 22-177	9	0-369
10	24 38-469	10	0 24-641	10	0-411
11	27 6-316	11	0 27-105	11	0-452
12	29 34-163	12	0 29-569	12	0-493
13	32 2-010	13	0 32-033	13	0-534
14	34 29-857	14	0 34-497	14	0-575
15	36 57-703	15	0 36-962	15	0-616
16	39 25-550	16	0 39-426	16	0-657
17	41 53-397	17	0 41-890	17	0-698
18	44 21-244	18	0 44-354	18	0-739
19	46 49-091	19	0 46-818	19	0-780
20	49 16-938	20	0 49-282	20	0-821
21	51 44-784	21	0 51-746	21	0-862
22	54 12-631	22	0 54-210	22	0-903
23	56 40-478	23	0 56-674	23	0-944
24	59 8-325	24	0 59-138	24	0-985
		25	1 1-603	25	1-027
Days.	' "	26	1 4-007	26	1-068
1	0 59 8-33	27	1 6-531	27	1-109
2	1 58 16-65	28	1 8-995	28	1-150
3	2 57 24-98	29	1 11-459	29	1-191
4	3 56 33-30	30	1 13-923	30	1-232
5	4 55 41-63	31	1 16-387	31	1-273
6	5 54 49-95	32	1 18-851	32	1-314
7	6 53 58-28	33	1 21-315	33	1-355
8	7 53 6-60	34	1 23-779	34	1-396
9	8 52 14-92	35	1 26-244	35	1-437
10	9 51 23-25	36	1 28-708	36	1-478
11	10 50 31-58	37	1 31-172	37	1-519
12	11 49 39-90	38	1 33-636	38	1-560
13	12 48 48-23	39	1 36-100	39	1-601
14	13 47 56-55	40	1 38-565	40	1-642
15	14 47 4-87	41	1 41-029	41	1-684
16	15 46 13-20	42	1 43-493	42	1-725
17	16 45 21-53	43	1 45-957	43	1-766
18	17 44 29-85	44	1 48-421	44	1-807
19	18 43 38-17	45	1 50-885	45	1-848
20	19 42 46-50	46	1 53-349	46	1-889
21	20 41 54-83	47	1 55-813	47	1-930
22	21 41 3-15	48	1 58-277	48	1-971
23	22 40 11-48	49	2 0-741	49	2-012
24	23 39 19-80	50	2 3-206	50	2-053
25	24 38 28-12	51	2 5-670	51	2-094
26	25 37 36-45	52	2 8-134	52	2-135
27	26 36 44-78	53	2 10-598	53	2-176
28	27 35 53-10	54	2 13-062	54	2-217
29	28 35 1-42	55	2 15-526	55	2-258
30	29 34 9-75	56	2 17-990	56	2-300
31	30 33 18-08	57	2 20-454	57	2-341
		58	2 22-918	58	2-382
		59	2 25-382	59	2-423
		60	2 27-847	60	2-464

DISTANCE OF THE VISIBLE HORIZON.

(The Distances are in Nautical Miles, and the Height of the Eye in Feet.)

Height in Feet.	Distance in Sea Miles.	Height in Feet.	Distance in Sea Miles.	Height in Feet.	Distance in Sea Miles.	Height in Feet.	Distance in Sea Miles.	Height in Feet.	Distance in Sea Miles.
1	1.06	61	8.31	142	12.67	720	28.83	2550	53.70
2	1.50	62	8.37	144	12.76	740	28.93	2600	54.22
3	1.84	63	8.44	146	12.85	760	29.02	2650	54.74
4	2.13	64	8.51	148	12.94	780	29.10	2700	55.25
5	2.38	65	8.58	150	13.03	800	29.18	2750	55.76
6	2.60	66	8.64	153	13.14	820	29.25	2800	56.27
7	2.81	67	8.70	155	13.23	840	29.32	2850	56.77
8	3.01	68	8.77	157	13.32	860	29.39	2900	57.27
9	3.19	69	8.83	160	13.47	880	29.46	2950	57.76
10	3.36	70	8.89	163	13.57	900	29.53	3000	58.25
11	3.53	71	8.96	165	13.66	920	29.60	3050	58.73
12	3.68	72	9.02	168	13.77	940	29.67	3100	59.21
13	3.83	73	9.09	170	13.87	960	29.74	3150	59.68
14	3.98	74	9.15	173	13.97	980	29.81	3200	60.15
15	4.12	75	9.21	175	14.07	1000	29.88	3250	60.62
16	4.25	76	9.27	178	14.18	1020	29.95	3300	61.09
17	4.38	77	9.33	180	14.27	1040	30.02	3350	61.55
18	4.51	78	9.39	183	14.38	1060	30.09	3400	62.01
19	4.63	79	9.45	185	14.48	1080	30.16	3450	62.46
20	4.76	80	9.51	188	14.59	1100	30.23	3500	62.91
21	4.87	81	9.57	190	14.68	1120	30.30	3550	63.36
22	4.99	82	9.63	193	14.79	1140	30.37	3600	63.80
23	5.10	83	9.69	195	14.89	1160	30.44	3650	64.24
24	5.21	84	9.75	198	14.99	1180	30.51	3700	64.68
25	5.32	85	9.80	200	15.09	1200	30.58	3750	65.12
26	5.42	86	9.86	203	15.20	1220	30.65	3800	65.55
27	5.52	87	9.92	205	15.30	1240	30.72	3850	65.98
28	5.62	88	9.98	208	15.41	1260	30.79	3900	66.41
29	5.72	89	10.03	210	15.51	1280	30.86	3950	66.83
30	5.82	90	10.09	213	15.62	1300	30.93	4000	67.26
31	5.92	91	10.14	215	15.72	1320	31.00	4100	68.08
32	6.01	92	10.20	218	15.83	1340	31.07	4200	68.88
33	6.11	93	10.25	220	15.93	1360	31.14	4300	69.67
34	6.20	94	10.31	223	16.04	1380	31.21	4400	70.45
35	6.29	95	10.36	225	16.14	1400	31.28	4500	71.24
36	6.38	96	10.42	228	16.25	1420	31.35	4600	72.01
37	6.47	97	10.47	230	16.35	1440	31.42	4700	72.78
38	6.56	98	10.53	233	16.46	1460	31.49	4800	73.55
39	6.64	99	10.58	235	16.56	1480	31.56	4900	74.32
40	6.73	100	10.63	238	16.67	1500	31.63	5000	75.08
41	6.81	102	10.74	240	16.77	1520	31.70	5100	75.85
42	6.89	104	10.84	243	16.88	1540	31.77	5200	76.61
43	6.97	106	10.95	245	16.98	1560	31.84	5300	77.37
44	7.05	108	11.05	248	17.09	1580	31.91	5400	78.12
45	7.13	110	11.15	250	17.19	1600	31.98	5500	78.87
46	7.21	112	11.25	253	17.30	1620	32.05	5600	79.62
47	7.29	114	11.35	255	17.40	1640	32.12	5700	80.37
48	7.37	116	11.45	258	17.51	1660	32.19	5800	81.12
49	7.44	118	11.55	260	17.61	1680	32.26	5900	81.87
50	7.52	120	11.65	263	17.72	1700	32.33	6000	82.62
51	7.59	122	11.75	265	17.82	1720	32.40		
52	7.67	124	11.84	268	17.93	1740	32.47		
53	7.74	126	11.94	270	18.03	1760	32.54		
54	7.81	128	12.03	273	18.14	1780	32.61		
55	7.89	130	12.13	275	18.24	1800	32.68		
56	7.96	132	12.22	278	18.35	1820	32.75		
57	8.03	134	12.31	280	18.45	1840	32.82		
58	8.10	136	12.40	283	18.56	1860	32.89		
59	8.17	138	12.49	285	18.66	1880	32.96		
60	8.24	140	12.58	288	18.77	1900	33.03		

Height	Dist.
In	
Nautical	
or	
Sea Miles.	
1	82.25
2	117.22
3	142.64
4	168.69

HEIGHT OF APPARENT ABOVE THE TRUE LEVEL.
(The Correction for Refraction is to be applied when necessary.)

Dist. Chains.	Subtr. Inches.	Dist. Chains.	Subtr. Inches.	Dist. Chains.	Subtr. Inches.	Dist. Chains.	Subtr. Inches.	Dist. Miles.	Subtr. Ft. In.
1	0.000	14	0.24	27	0.91	40	2.00	1	0 8
2	0.005	15	0.28	28	0.98	45	2.28	2	2 8
3	0.012	16	0.32	29	1.05	50	3.12	3	6 0
4	0.02	17	0.36	30	1.12	55	3.76	4	10 7
5	0.03	18	0.40	31	1.19	60	4.50	5	16 7
6	0.04	19	0.45	32	1.27	65	5.31	6	23 11
7	0.06	20	0.50	33	1.35	70	6.12	7	32 6
8	0.08	21	0.55	34	1.44	75	7.03	8	42 6
9	0.10	22	0.60	35	1.53	80	8.00	9	53 9
10	0.12	23	0.67	36	1.63	85	9.03	10	66 4
11	0.15	24	0.72	37	1.71	90	10.12	11	80 3
12	0.18	25	0.78	38	1.80	95	11.28	12	95 7
13	0.21	26	0.84	39	1.91	100	11.60	13	112 2

TABLE FOR THE CONVERSION OF THE DIFFERENT THERMOMETRIC SCALES.

Fah.	Reau.	Cen.	Fah.	Reau.	Cen.	Fah.	Reau.	Cen.	Fah.	Reau.	Cen.
212	80.0	100.0	177	64.4	80.5	142	48.8	61.1	107	33.3	41.6
211	79.5	99.4	176	64.0	80.0	141	48.4	60.5	106	32.8	41.1
210	79.1	98.8	175	63.5	79.4	140	48.0	60.0	105	32.4	40.5
209	78.6	98.3	174	63.1	78.8	139	47.5	59.4	104	32.0	40.0
208	78.2	97.7	173	62.6	78.3	138	47.1	58.8	103	31.5	39.4
207	77.7	97.2	172	62.2	77.7	137	46.6	58.3	102	31.1	38.8
206	77.3	96.6	171	61.7	77.2	136	46.2	57.7	101	30.6	38.3
205	76.8	96.1	170	61.3	76.6	135	45.7	57.2	100	30.2	37.7
204	76.4	95.5	169	60.8	76.1	134	45.3	56.6	99	29.7	37.2
203	76.0	95.0	168	60.4	75.5	133	44.8	56.1	98	29.3	36.6
202	75.5	94.4	167	60.0	75.0	132	44.4	55.5	97	28.8	36.1
201	75.1	93.8	166	59.5	74.4	131	44.0	55.0	96	28.4	35.5
200	74.6	93.3	165	59.1	73.8	130	43.5	54.4	95	28.0	35.0
199	74.2	92.7	164	58.6	73.3	129	43.1	53.8	94	27.5	34.4
198	73.7	92.2	163	58.2	72.7	128	42.6	53.3	93	27.1	33.8
197	73.3	91.6	162	57.7	72.2	127	42.2	52.7	92	26.6	33.3
196	72.8	91.1	161	57.3	71.6	126	41.7	52.2	91	26.2	32.7
195	72.4	90.5	160	56.8	71.1	125	41.3	51.6	90	25.7	32.2
194	72.0	90.0	159	56.4	70.5	124	40.8	51.1	89	25.3	31.6
193	71.5	89.4	158	56.0	70.0	123	40.4	50.5	88	24.8	31.1
192	71.1	88.8	157	55.5	69.4	122	40.0	50.0	87	24.4	30.5
191	70.6	88.3	156	55.1	68.8	121	39.5	49.4	86	24.0	30.0
190	70.2	87.7	155	54.6	68.3	120	39.1	48.8	85	23.5	29.4
189	69.7	87.2	154	54.2	67.7	119	38.6	48.3	84	23.1	28.8
188	69.3	86.6	153	53.7	67.2	118	38.2	47.7	83	22.6	28.3
187	68.8	86.1	152	53.3	66.6	117	37.7	47.2	82	22.2	27.7
186	68.4	85.5	151	52.8	66.1	116	37.3	46.6	81	21.7	27.2
185	68.0	85.0	150	52.4	65.5	115	36.8	46.1	80	21.3	26.6
184	67.5	84.4	149	52.0	65.0	114	36.4	45.5	79	20.8	26.1
183	67.1	83.8	148	51.5	64.4	113	36.0	45.0	78	20.4	25.5
182	66.6	83.3	147	51.1	63.8	112	35.5	44.4	77	20.0	25.0
181	66.2	82.7	146	50.6	63.3	111	35.1	43.8	76	19.5	24.4
180	65.7	82.2	145	50.2	62.7	110	34.6	43.3	75	19.1	23.8
179	65.3	81.6	144	49.7	62.2	109	34.2	42.7	74	18.6	23.3
178	64.8	81.1	143	49.3	61.6	108	33.7	42.2	73	18.2	22.7

	0°	1°	2°	3°	4°	5°	6°	
0	0.000000	0.0174551	0.0349208	0.0524078	0.0699368	0.0874887	0.1051042	60
1	0.0002909	0.0177460	0.0352120	0.0526995	0.0702191	0.0877812	0.1053993	59
2	0.0005818	0.0180370	0.0355033	0.0529912	0.0705115	0.0880749	0.1056925	58
3	0.0008727	0.0183280	0.0357945	0.0532829	0.0708038	0.0883691	0.1059866	57
4	0.0011636	0.0186190	0.0360858	0.0535746	0.0710961	0.0886612	0.1062808	56
5	0.0014544	0.0189100	0.0363771	0.0538663	0.0713885	0.0889514	0.1065750	55
6	0.0017453	0.0192010	0.0366683	0.0541581	0.0716809	0.0892476	0.1068692	54
7	0.0020362	0.0194920	0.0369596	0.0544498	0.0719733	0.0895408	0.1071634	53
8	0.0023271	0.0197830	0.0372509	0.0547416	0.0722657	0.0898341	0.1074576	52
9	0.0026180	0.0200740	0.0375422	0.0550333	0.0725581	0.0901273	0.1077519	51
10	0.0029089	0.0203650	0.0378335	0.0553251	0.0728505	0.0904206	0.1080462	50
11	0.0031998	0.0206560	0.0381248	0.0556169	0.0731430	0.0907138	0.1083405	49
12	0.0034907	0.0209470	0.0384161	0.0559087	0.0734354	0.0910071	0.1086348	48
13	0.0037816	0.0212380	0.0387074	0.0562005	0.0737279	0.0913004	0.1089291	47
14	0.0040725	0.0215291	0.0389988	0.0564923	0.0740203	0.0915938	0.1092234	46
15	0.0043634	0.0218201	0.0392901	0.0567841	0.0743128	0.0918871	0.1095178	45
16	0.0046542	0.0221111	0.0395814	0.0570759	0.0746053	0.0921804	0.1098122	44
17	0.0049451	0.0224021	0.0398728	0.0573678	0.0748979	0.0924738	0.1101065	43
18	0.0052360	0.0226932	0.0401641	0.0576596	0.0751904	0.0927672	0.1104010	42
19	0.0055269	0.0229842	0.0404555	0.0579515	0.0754829	0.0930606	0.1106955	41
20	0.0058178	0.0232753	0.0407469	0.0582434	0.0757755	0.0933540	0.1109900	40
21	0.0061087	0.0235663	0.0410383	0.0585352	0.0760680	0.0936474	0.1112844	39
22	0.0063996	0.0238574	0.0413296	0.0588271	0.0763606	0.0939409	0.1115789	38
23	0.0066905	0.0241484	0.0416210	0.0591190	0.0766532	0.0942344	0.1118734	37
24	0.0069814	0.0244395	0.0419124	0.0594109	0.0769458	0.0945278	0.1121680	36
25	0.0072723	0.0247305	0.0422038	0.0597029	0.0772381	0.0948213	0.1124625	35
26	0.0075632	0.0250216	0.0424952	0.0599948	0.0775311	0.0951148	0.1127571	34
27	0.0078541	0.0253127	0.0427866	0.0602867	0.0778237	0.0954084	0.1130517	33
28	0.0081450	0.0256038	0.0430781	0.0605787	0.0781161	0.0957019	0.1133463	32
29	0.0084360	0.0258948	0.0433695	0.0608706	0.0784090	0.0959955	0.1136410	31
30	0.0087269	0.0261859	0.0436609	0.0611626	0.0787017	0.0962890	0.1139356	30
31	0.0090178	0.0264770	0.0439524	0.0614546	0.0789944	0.0965826	0.1142303	29
32	0.0093087	0.0267681	0.0442438	0.0617466	0.0792871	0.0968763	0.1145250	28
33	0.0095996	0.0270592	0.0445353	0.0620386	0.0795798	0.0971699	0.1148197	27
34	0.0098905	0.0273503	0.0448268	0.0623306	0.0798726	0.0974635	0.1151144	26
35	0.0101814	0.0276414	0.0451183	0.0626226	0.0801653	0.0977572	0.1154092	25
36	0.0104724	0.0279325	0.0454097	0.0629147	0.0804581	0.0980509	0.1157039	24
37	0.0107633	0.0282236	0.0457012	0.0632067	0.0807509	0.0983446	0.1159987	23
38	0.0110542	0.0285148	0.0459927	0.0634988	0.0810437	0.0986383	0.1162936	22
39	0.0113451	0.0288059	0.0462842	0.0637908	0.0813365	0.0989320	0.1165884	21
40	0.0116361	0.0290970	0.0465757	0.0640829	0.0816293	0.0992257	0.1168832	20
41	0.0119270	0.0293883	0.0468673	0.0643750	0.0819221	0.0995194	0.1171781	19
42	0.0122179	0.0296793	0.0471588	0.0646671	0.0822150	0.0998133	0.1174730	18
43	0.0125088	0.0299705	0.0474503	0.0649592	0.0825078	0.1001071	0.1177679	17
44	0.0127998	0.0302616	0.0477419	0.0652513	0.0828007	0.1004009	0.1180628	16
45	0.0130907	0.0305528	0.0480334	0.0655435	0.0830936	0.1006947	0.1183578	15
46	0.0133817	0.0308439	0.0483250	0.0658356	0.0833865	0.1009886	0.1186528	14
47	0.0136726	0.0311351	0.0486166	0.0661278	0.0836794	0.1012824	0.1189478	13
48	0.0139636	0.0314263	0.0489082	0.0664199	0.0839723	0.1015763	0.1192428	12
49	0.0142545	0.0317174	0.0491997	0.0667121	0.0842653	0.1018702	0.1195378	11
50	0.0145454	0.0320086	0.0494913	0.0670043	0.0845583	0.1021641	0.1198329	10
51	0.0148364	0.0322999	0.0497829	0.0672965	0.0848512	0.1024580	0.1201279	9
52	0.0151273	0.0325910	0.0500746	0.0675887	0.0851442	0.1027520	0.1204230	8
53	0.0154183	0.0328823	0.0503663	0.0678809	0.0854373	0.1030460	0.1207182	7
54	0.0157093	0.0331734	0.0506578	0.0681732	0.0857303	0.1033399	0.1210133	6
55	0.0160003	0.0334646	0.0509495	0.0684654	0.0860233	0.1036340	0.1213085	5
56	0.0162912	0.0337558	0.0512411	0.0687577	0.0863163	0.1039280	0.1216036	4
57	0.0165822	0.0340471	0.0515328	0.0690499	0.0866094	0.1042220	0.1218988	3
58	0.0168731	0.0343383	0.0518244	0.0693422	0.0869025	0.1045161	0.1221941	2
59	0.0171641	0.0346295	0.0521161	0.0696345	0.0871956	0.1048101	0.1224893	1
60	0.0174551	0.0349208	0.0524078	0.0699268	0.0874887	0.1051042	0.1227846	0
	80°	88°	87°	86°	85°	84°	83°	

	0°	1°	2°	3°	4°	5°	6°	
0	1.0000000	1.0001523	1.0003046	1.0013723	1.0024419	1.0035115	1.0045812	60
1	1.0000000	1.0001574	1.0003108	1.0013877	1.0024623	1.0035344	1.0046039	59
2	1.0000000	1.0001627	1.0003200	1.0014030	1.0024829	1.0035571	1.0046269	58
3	1.0000004	1.0001679	1.0003294	1.0014185	1.0025035	1.0035798	1.0046500	57
4	1.0000007	1.0001733	1.0003390	1.0014341	1.0025241	1.0036027	1.0046731	56
5	1.0000011	1.0001788	1.0003484	1.0014497	1.0025449	1.0036258	1.0046963	55
6	1.0000015	1.0001843	1.0003579	1.0014655	1.0025658	1.0036489	1.0047194	54
7	1.0000019	1.0001898	1.0003673	1.0014813	1.0025867	1.0036720	1.0047425	53
8	1.0000023	1.0001953	1.0003768	1.0014972	1.0026078	1.0036952	1.0047657	52
9	1.0000027	1.0002008	1.0003863	1.0015132	1.0026289	1.0037184	1.0047889	51
10	1.0000034	1.0002063	1.0003958	1.0015293	1.0026501	1.0037417	1.0048122	50
11	1.0000042	1.0002118	1.0004053	1.0015454	1.0026714	1.0037650	1.0048355	49
12	1.0000051	1.0002173	1.0004148	1.0015617	1.0026928	1.0037883	1.0048588	48
13	1.0000061	1.0002228	1.0004243	1.0015780	1.0027142	1.0038116	1.0048821	47
14	1.0000072	1.0002283	1.0004338	1.0015944	1.0027358	1.0038350	1.0049054	46
15	1.0000083	1.0002337	1.0004433	1.0016109	1.0027574	1.0038583	1.0049287	45
16	1.0000095	1.0002390	1.0004528	1.0016275	1.0027791	1.0038817	1.0049520	44
17	1.0000108	1.0002444	1.0004623	1.0016442	1.0028009	1.0039050	1.0049753	43
18	1.0000122	1.0002498	1.0004718	1.0016609	1.0028228	1.0039284	1.0050000	42
19	1.0000137	1.0002552	1.0004813	1.0016778	1.0028448	1.0039517	1.0050233	41
20	1.0000153	1.0002606	1.0004908	1.0016947	1.0028669	1.0039750	1.0050466	40
21	1.0000169	1.0002660	1.0005003	1.0017117	1.0028890	1.0040000	1.0050700	39
22	1.0000187	1.0002714	1.0005098	1.0017288	1.0029112	1.0040244	1.0050933	38
23	1.0000205	1.0002768	1.0005193	1.0017460	1.0029336	1.0040488	1.0051166	37
24	1.0000224	1.0002822	1.0005288	1.0017633	1.0029560	1.0040732	1.0051400	36
25	1.0000244	1.0002876	1.0005383	1.0017808	1.0029785	1.0040976	1.0051633	35
26	1.0000264	1.0002930	1.0005478	1.0017981	1.0030010	1.0041220	1.0051866	34
27	1.0000286	1.0002984	1.0005573	1.0018156	1.0030237	1.0041464	1.0052100	33
28	1.0000308	1.0003038	1.0005668	1.0018332	1.0030464	1.0041708	1.0052333	32
29	1.0000332	1.0003092	1.0005763	1.0018509	1.0030693	1.0041952	1.0052566	31
30	1.0000356	1.0003146	1.0005858	1.0018687	1.0030922	1.0042196	1.0052800	30
31	1.0000381	1.0003200	1.0005953	1.0018867	1.0031152	1.0042440	1.0053033	29
32	1.0000407	1.0003254	1.0006048	1.0019045	1.0031383	1.0042684	1.0053266	28
33	1.0000433	1.0003308	1.0006143	1.0019225	1.0031615	1.0042928	1.0053500	27
34	1.0000461	1.0003362	1.0006238	1.0019407	1.0031847	1.0043172	1.0053733	26
35	1.0000489	1.0003416	1.0006333	1.0019589	1.0032081	1.0043416	1.0053966	25
36	1.0000518	1.0003470	1.0006428	1.0019772	1.0032315	1.0043660	1.0054200	24
37	1.0000548	1.0003524	1.0006523	1.0019956	1.0032550	1.0043904	1.0054433	23
38	1.0000579	1.0003578	1.0006618	1.0020140	1.0032787	1.0044148	1.0054666	22
39	1.0000611	1.0003632	1.0006713	1.0020326	1.0033024	1.0044392	1.0054900	21
40	1.0000644	1.0003686	1.0006808	1.0020512	1.0033261	1.0044636	1.0055133	20
41	1.0000677	1.0003740	1.0006903	1.0020699	1.0033500	1.0044880	1.0055366	19
42	1.0000711	1.0003794	1.0007000	1.0020887	1.0033740	1.0045124	1.0055600	18
43	1.0000746	1.0003848	1.0007095	1.0021076	1.0033980	1.0045368	1.0055833	17
44	1.0000782	1.0003902	1.0007190	1.0021266	1.0034221	1.0045612	1.0056066	16
45	1.0000819	1.0003956	1.0007285	1.0021457	1.0034463	1.0045856	1.0056300	15
46	1.0000857	1.0004010	1.0007380	1.0021649	1.0034706	1.0046100	1.0056533	14
47	1.0000895	1.0004064	1.0007475	1.0021841	1.0034950	1.0046344	1.0056766	13
48	1.0000935	1.0004118	1.0007570	1.0022034	1.0035195	1.0046588	1.0057000	12
49	1.0000975	1.0004172	1.0007665	1.0022228	1.0035440	1.0046832	1.0057233	11
50	1.0001016	1.0004226	1.0007760	1.0022423	1.0035687	1.0047076	1.0057466	10
51	1.0001058	1.0004280	1.0007855	1.0022619	1.0035934	1.0047320	1.0057700	9
52	1.0001101	1.0004334	1.0007950	1.0022815	1.0036182	1.0047564	1.0057933	8
53	1.0001144	1.0004388	1.0008045	1.0023013	1.0036431	1.0047808	1.0058166	7
54	1.0001189	1.0004442	1.0008140	1.0023211	1.0036681	1.0048052	1.0058400	6
55	1.0001234	1.0004496	1.0008235	1.0023410	1.0036932	1.0048296	1.0058633	5
56	1.0001280	1.0004550	1.0008330	1.0023610	1.0037183	1.0048540	1.0058866	4
57	1.0001327	1.0004604	1.0008425	1.0023811	1.0037435	1.0048784	1.0059100	3
58	1.0001375	1.0004658	1.0008520	1.0024013	1.0037689	1.0049028	1.0059333	2
59	1.0001423	1.0004712	1.0008615	1.0024216	1.0037943	1.0049272	1.0059566	1
60	1.0001473	1.0004766	1.0008710	1.0024419	1.0038198	1.0049516	1.0059800	0
	80°	85°	87°	88°	85°	84°	83°	

	7°	8°	9°	10°	11°	12°	13°	
0	0.1227846	0.1405408	0.1583844	0.1763270	0.1943808	0.2125566	0.2309083	60
1	.1230798	.1408375	.1586826	.1766269	.1946823	.2128606	.2311746	59
2	.1233752	.1411342	.1589809	.1769269	.1949811	.2131647	.2314811	58
3	.1236705	.1414308	.1592791	.1772269	.1952861	.2134688	.2317876	57
4	.1239658	.1417276	.1595774	.1775270	.1955881	.2137730	.2320941	56
5	.1242612	.1420243	.1598757	.1778270	.1958901	.2140772	.2324007	55
6	.1245566	.1423211	.1601740	.1781271	.1961922	.2143814	.2327073	54
7	.1248520	.1426179	.1604724	.1784273	.1964943	.2146857	.2330140	53
8	.1251474	.1429147	.1607708	.1787274	.1967964	.2149900	.2333207	52
9	.1254429	.1432115	.1610693	.1790276	.1970986	.2152944	.2336274	51
10	.1257384	0.1435084	0.1613677	0.1793279	0.1974008	0.2155988	0.2339342	50
11	.1260339	.1438053	.1616662	.1796281	.1977031	.2159032	.2342410	49
12	.1263291	.1441022	.1619647	.1799284	.1980053	.2162077	.2345479	48
13	.1266246	.1443991	.1622632	.1802287	.1983076	.2165121	.2348548	47
14	.1269205	.1446961	.1625618	.1805291	.1986100	.2168167	.2351617	46
15	.1272161	.1449931	.1628603	.1808295	.1989124	.2171213	.2354687	45
16	.1275117	.1452901	.1631590	.1811299	.1992148	.2174259	.2357758	44
17	.1278073	.1455872	.1634576	.1814303	.1995172	.2177306	.2360829	43
18	.1281030	.1458843	.1637563	.1817308	.1998197	.2180353	.2363900	42
19	.1283986	.1461813	.1640550	.1820313	.2001222	.2183400	.2366971	41
20	0.1286943	0.1464784	0.1643537	0.1823319	0.2004248	0.2186448	0.2370044	40
21	.1289900	.1467756	.1646525	.1826324	.2007274	.2189494	.2373116	39
22	.1292858	.1470727	.1649513	.1829330	.2010300	.2192544	.2376189	38
23	.1295815	.1473699	.1652501	.1832337	.2013327	.2195593	.2379262	37
24	.1298773	.1476673	.1655489	.1835343	.2016354	.2198643	.2382336	36
25	.1301731	.1479644	.1658478	.1838350	.2019381	.2201692	.2385410	35
26	.1304690	.1482617	.1661467	.1841358	.2022409	.2204742	.2388485	34
27	.1307648	.1485590	.1664456	.1844365	.2025437	.2207793	.2391560	33
28	.1310607	.1488563	.1667446	.1847373	.2028465	.2210844	.2394635	32
29	.1313566	.1491536	.1670436	.1850382	.2031494	.2213895	.2397711	31
30	0.1316525	0.1494510	0.1673426	0.1853390	0.2034523	0.2216947	0.2400788	30
31	.1319484	.1497484	.1676417	.1856399	.2037552	.2219999	.2403864	29
32	.1322444	.1500458	.1679407	.1859409	.2040580	.2223051	.2406942	28
33	.1325404	.1503433	.1682398	.1862418	.2043612	.2226104	.2410019	27
34	.1328363	.1506408	.1685390	.1865428	.2046643	.2229167	.2413097	26
35	.1331324	.1509383	.1688381	.1868439	.2049674	.2232211	.2416176	25
36	.1334285	.1512358	.1691373	.1871449	.2052705	.2235265	.2419255	24
37	.1337246	.1515333	.1694366	.1874460	.2055737	.2238319	.2422334	23
38	.1340207	.1518309	.1697358	.1877471	.2058769	.2241374	.2425414	22
39	.1343168	.1521285	.1700351	.1880483	.2061801	.2244429	.2428494	21
40	0.1346129	0.1524262	0.1703344	0.1883495	0.2064834	0.2247485	0.2431575	20
41	.1349091	.1527238	.1706338	.1886507	.2067867	.2250541	.2434656	19
42	.1352053	.1530215	.1709331	.1889520	.2070900	.2253597	.2437737	18
43	.1355015	.1533193	.1712325	.1892533	.2073934	.2256654	.2440819	17
44	.1357978	.1536170	.1715320	.1895546	.2076968	.2259711	.2443900	16
45	.1360940	.1539147	.1718314	.1898559	.2080003	.2262769	.2446984	15
46	.1363903	.1542125	.1721309	.1901573	.2083038	.2265827	.2450068	14
47	.1366866	.1545103	.1724304	.1904587	.2086073	.2268885	.2453151	13
48	.1369830	.1548083	.1727300	.1907602	.2089109	.2271944	.2456236	12
49	.1372793	.1551061	.1730296	.1910617	.2092145	.2275003	.2459320	11
50	0.1375757	0.1554040	0.1733292	0.1913632	0.2095181	0.2278063	0.2462405	10
51	.1378721	.1557019	.1736288	.1916648	.2098218	.2281123	.2465491	9
52	.1381685	.1560000	.1739285	.1919664	.2101255	.2284184	.2468577	8
53	.1384650	.1562978	.1742282	.1922680	.2104293	.2287244	.2471663	7
54	.1387616	.1565958	.1745279	.1925696	.2107331	.2290306	.2474750	6
55	.1390580	.1568939	.1748277	.1928713	.2110369	.2293367	.2477837	5
56	.1393545	.1571919	.1751275	.1931731	.2113407	.2296429	.2480925	4
57	.1396510	.1574900	.1754273	.1934748	.2116446	.2299491	.2484013	3
58	.1399476	.1577881	.1757272	.1937766	.2119486	.2302553	.2487102	2
59	.1402442	.1580863	.1760271	.1940784	.2122525	.2305618	.2490191	1
60	0.1405408	0.1583844	0.1763270	0.1943803	0.2125566	0.2308683	0.2493280	0
	82°	81°	80°	79°	78°	77°	76°	

	7°	8°	9°	10°	11°	12°	13°	
0	1.0075098	1.0098276	1.0124651	1.0154266	1.0187167	1.0223406	1.0263041	60
1	1.0075459	1.0098689	1.0125118	1.0154787	1.0187743	1.0224039	1.0263731	59
2	1.0075820	1.0099103	1.0125586	1.0155310	1.0188321	1.0224672	1.0264411	58
3	1.0076182	1.0099518	1.0126055	1.0155833	1.0188899	1.0225307	1.0265113	57
4	1.0076545	1.0099934	1.0126524	1.0156357	1.0189478	1.0225942	1.0265806	56
5	1.0076908	1.0100351	1.0126995	1.0156882	1.0190059	1.0226578	1.0266499	55
6	1.0077273	1.0100769	1.0127466	1.0157408	1.0190640	1.0227216	1.0267194	54
7	1.0077639	1.0101187	1.0127939	1.0157934	1.0191222	1.0227854	1.0267889	53
8	1.0078005	1.0101607	1.0128412	1.0158463	1.0191805	1.0228493	1.0268586	52
9	1.0078372	1.0102027	1.0128886	1.0158991	1.0192389	1.0229133	1.0269283	51
10	1.0078741	1.0102449	1.0129361	1.0159520	1.0192973	1.0229774	1.0269982	50
11	1.0079110	1.0102871	1.0129837	1.0160050	1.0193559	1.0230416	1.0270681	49
12	1.0079480	1.0103294	1.0130314	1.0160582	1.0194146	1.0231059	1.0271381	48
13	1.0079851	1.0103718	1.0130791	1.0161114	1.0194734	1.0231703	1.0272082	47
14	1.0080222	1.0104143	1.0131270	1.0161647	1.0195322	1.0232348	1.0272785	46
15	1.0080595	1.0104568	1.0131750	1.0162181	1.0195912	1.0232994	1.0273488	45
16	1.0080968	1.0104995	1.0132230	1.0162716	1.0196502	1.0233641	1.0274192	44
17	1.0081343	1.0105422	1.0132711	1.0163252	1.0197093	1.0234288	1.0274897	43
18	1.0081718	1.0105851	1.0133194	1.0163789	1.0197686	1.0234937	1.0275603	42
19	1.0082094	1.0106280	1.0133677	1.0164327	1.0198279	1.0235587	1.0276310	41
20	1.0082471	1.0106710	1.0134161	1.0164865	1.0198873	1.0236237	1.0277018	40
21	1.0082849	1.0107141	1.0134646	1.0165405	1.0199468	1.0236889	1.0277727	39
22	1.0083228	1.0107573	1.0135132	1.0165946	1.0200064	1.0237541	1.0278437	38
23	1.0083607	1.0108006	1.0135618	1.0166487	1.0200661	1.0238195	1.0279148	37
24	1.0083988	1.0108440	1.0136106	1.0167029	1.0201259	1.0238849	1.0279860	36
25	1.0084369	1.0108875	1.0136595	1.0167573	1.0201858	1.0239504	1.0280575	35
26	1.0084752	1.0109310	1.0137084	1.0168117	1.0202457	1.0240161	1.0281293	34
27	1.0085135	1.0109747	1.0137574	1.0168663	1.0203056	1.0240818	1.0282002	33
28	1.0085519	1.0110184	1.0138066	1.0169208	1.0203656	1.0241476	1.0282717	32
29	1.0085904	1.0110622	1.0138558	1.0169755	1.0204262	1.0242135	1.0283434	31
30	1.0086290	1.0111061	1.0139051	1.0170303	1.0204866	1.0242795	1.0284152	30
31	1.0086676	1.0111501	1.0139545	1.0170851	1.0205470	1.0243456	1.0284871	29
32	1.0087064	1.0111942	1.0140040	1.0171401	1.0206075	1.0244118	1.0285590	28
33	1.0087452	1.0112384	1.0140536	1.0171952	1.0206682	1.0244781	1.0286311	27
34	1.0087842	1.0112827	1.0141032	1.0172503	1.0207289	1.0245445	1.0287033	26
35	1.0088232	1.0113270	1.0141530	1.0173056	1.0207897	1.0246110	1.0287755	25
36	1.0088623	1.0113715	1.0142029	1.0173609	1.0208506	1.0246776	1.0288479	24
37	1.0089015	1.0114160	1.0142528	1.0174163	1.0209116	1.0247442	1.0289203	23
38	1.0089408	1.0114606	1.0143028	1.0174719	1.0209727	1.0248110	1.0289929	22
39	1.0089802	1.0115054	1.0143530	1.0175275	1.0210339	1.0248779	1.0290655	21
40	1.0090196	1.0115502	1.0144032	1.0175832	1.0210952	1.0249448	1.0291383	20
41	1.0090592	1.0115951	1.0144535	1.0176390	1.0211566	1.0250119	1.0292111	19
42	1.0090988	1.0116400	1.0145039	1.0176949	1.0212180	1.0250790	1.0292840	18
43	1.0091386	1.0116851	1.0145544	1.0177509	1.0212796	1.0251462	1.0293571	17
44	1.0091784	1.0117303	1.0146050	1.0178069	1.0213413	1.0252136	1.0294302	16
45	1.0092183	1.0117755	1.0146556	1.0178631	1.0214028	1.0252811	1.0295034	15
46	1.0092583	1.0118209	1.0147064	1.0179194	1.0214649	1.0253486	1.0295768	14
47	1.0092984	1.0118663	1.0147572	1.0179757	1.0215268	1.0254162	1.0296502	13
48	1.0093386	1.0119118	1.0148082	1.0180321	1.0215888	1.0254839	1.0297237	12
49	1.0093788	1.0119575	1.0148592	1.0180887	1.0216510	1.0255518	1.0297978	11
50	1.0094192	1.0120032	1.0149103	1.0181458	1.0217132	1.0256197	1.0298711	10
51	1.0094596	1.0120490	1.0149616	1.0182030	1.0217755	1.0256877	1.0299449	9
52	1.0095001	1.0120948	1.0150129	1.0182608	1.0218379	1.0257558	1.0300188	8
53	1.0095408	1.0121406	1.0150643	1.0183158	1.0219004	1.0258240	1.0300928	7
54	1.0095815	1.0121869	1.0151158	1.0183728	1.0219630	1.0258923	1.0301669	6
55	1.0096223	1.0122330	1.0151673	1.0184298	1.0220257	1.0259607	1.0302411	5
56	1.0096631	1.0122793	1.0152190	1.0184870	1.0220885	1.0260292	1.0303154	4
57	1.0097041	1.0123256	1.0152708	1.0185443	1.0221514	1.0260978	1.0303898	3
58	1.0097452	1.0123720	1.0153230	1.0186017	1.0222144	1.0261665	1.0304643	2
59	1.0097863	1.0124185	1.0153746	1.0186591	1.0222774	1.0262353	1.0305389	1
60	1.0098276	1.0124651	1.0154266	1.0187167	1.0223406	1.0263041	1.0306136	0
	82°	81°	80°	79°	78°	77°	76°	

	14°	15°	16°	17°	18°	19°	20°	
0	0.2493290	0.2679192	0.2867454	0.3057397	0.3249197	0.3443276	0.3639792	66
1	0.2493270	0.2679160	0.2867400	0.3057348	0.3249143	0.3443230	0.3639746	67
2	0.2493250	0.2679128	0.2867351	0.3057299	0.3249089	0.3443184	0.3639700	68
3	0.2493231	0.2679097	0.2867302	0.3057250	0.3249035	0.3443138	0.3639654	69
4	0.2493212	0.2679066	0.2867253	0.3057201	0.3248981	0.3443092	0.3639608	70
5	0.2493193	0.2679035	0.2867204	0.3057152	0.3248927	0.3443046	0.3639562	71
6	0.2493174	0.2679004	0.2867155	0.3057103	0.3248873	0.3443000	0.3639516	72
7	0.2493155	0.2678973	0.2867106	0.3057054	0.3248819	0.3442954	0.3639470	73
8	0.2493136	0.2678942	0.2867057	0.3057005	0.3248765	0.3442908	0.3639424	74
9	0.2493117	0.2678911	0.2867008	0.3056956	0.3248711	0.3442862	0.3639378	75
10	0.2493098	0.2678880	0.2866959	0.3056907	0.3248657	0.3442816	0.3639332	76
11	0.2493079	0.2678849	0.2866910	0.3056858	0.3248603	0.3442770	0.3639286	77
12	0.2493060	0.2678818	0.2866861	0.3056809	0.3248549	0.3442724	0.3639240	78
13	0.2493041	0.2678787	0.2866812	0.3056760	0.3248495	0.3442678	0.3639194	79
14	0.2493022	0.2678756	0.2866763	0.3056711	0.3248441	0.3442632	0.3639148	80
15	0.2493003	0.2678725	0.2866714	0.3056662	0.3248387	0.3442586	0.3639102	81
16	0.2492984	0.2678694	0.2866665	0.3056613	0.3248333	0.3442540	0.3639056	82
17	0.2492965	0.2678663	0.2866616	0.3056564	0.3248279	0.3442494	0.3639010	83
18	0.2492946	0.2678632	0.2866567	0.3056515	0.3248225	0.3442448	0.3638964	84
19	0.2492927	0.2678601	0.2866518	0.3056466	0.3248171	0.3442402	0.3638918	85
20	0.2492908	0.2678570	0.2866469	0.3056417	0.3248117	0.3442356	0.3638872	86
21	0.2492889	0.2678539	0.2866420	0.3056368	0.3248063	0.3442310	0.3638826	87
22	0.2492870	0.2678508	0.2866371	0.3056319	0.3248009	0.3442264	0.3638780	88
23	0.2492851	0.2678477	0.2866322	0.3056270	0.3247955	0.3442218	0.3638734	89
24	0.2492832	0.2678446	0.2866273	0.3056221	0.3247901	0.3442172	0.3638688	90
25	0.2492813	0.2678415	0.2866224	0.3056172	0.3247847	0.3442126	0.3638642	91
26	0.2492794	0.2678384	0.2866175	0.3056123	0.3247793	0.3442080	0.3638596	92
27	0.2492775	0.2678353	0.2866126	0.3056074	0.3247739	0.3442034	0.3638550	93
28	0.2492756	0.2678322	0.2866077	0.3056025	0.3247685	0.3441988	0.3638504	94
29	0.2492737	0.2678291	0.2866028	0.3055976	0.3247631	0.3441942	0.3638458	95
30	0.2492718	0.2678260	0.2865979	0.3055927	0.3247577	0.3441896	0.3638412	96
31	0.2492699	0.2678229	0.2865930	0.3055878	0.3247523	0.3441850	0.3638366	97
32	0.2492680	0.2678198	0.2865881	0.3055829	0.3247469	0.3441804	0.3638320	98
33	0.2492661	0.2678167	0.2865832	0.3055780	0.3247415	0.3441758	0.3638274	99
34	0.2492642	0.2678136	0.2865783	0.3055731	0.3247361	0.3441712	0.3638228	100
35	0.2492623	0.2678105	0.2865734	0.3055682	0.3247307	0.3441666	0.3638182	
36	0.2492604	0.2678074	0.2865685	0.3055633	0.3247253	0.3441620	0.3638136	
37	0.2492585	0.2678043	0.2865636	0.3055584	0.3247199	0.3441574	0.3638090	
38	0.2492566	0.2678012	0.2865587	0.3055535	0.3247145	0.3441528	0.3638044	
39	0.2492547	0.2677981	0.2865538	0.3055486	0.3247091	0.3441482	0.3637998	
40	0.2492528	0.2677950	0.2865489	0.3055437	0.3247037	0.3441436	0.3637952	
41	0.2492509	0.2677919	0.2865440	0.3055388	0.3246983	0.3441390	0.3637906	
42	0.2492490	0.2677888	0.2865391	0.3055339	0.3246929	0.3441344	0.3637860	
43	0.2492471	0.2677857	0.2865342	0.3055290	0.3246875	0.3441298	0.3637814	
44	0.2492452	0.2677826	0.2865293	0.3055241	0.3246821	0.3441252	0.3637768	
45	0.2492433	0.2677795	0.2865244	0.3055192	0.3246767	0.3441206	0.3637722	
46	0.2492414	0.2677764	0.2865195	0.3055143	0.3246713	0.3441160	0.3637676	
47	0.2492395	0.2677733	0.2865146	0.3055094	0.3246659	0.3441114	0.3637630	
48	0.2492376	0.2677702	0.2865097	0.3055045	0.3246605	0.3441068	0.3637584	
49	0.2492357	0.2677671	0.2865048	0.3054996	0.3246551	0.3441022	0.3637538	
50	0.2492338	0.2677640	0.2865000	0.3054947	0.3246497	0.3440976	0.3637492	
51	0.2492319	0.2677609	0.2864951	0.3054898	0.3246443	0.3440930	0.3637446	
52	0.2492300	0.2677578	0.2864902	0.3054849	0.3246389	0.3440884	0.3637400	
53	0.2492281	0.2677547	0.2864853	0.3054800	0.3246335	0.3440838	0.3637354	
54	0.2492262	0.2677516	0.2864804	0.3054751	0.3246281	0.3440792	0.3637308	
55	0.2492243	0.2677485	0.2864755	0.3054702	0.3246227	0.3440746	0.3637262	
56	0.2492224	0.2677454	0.2864706	0.3054653	0.3246173	0.3440700	0.3637216	
57	0.2492205	0.2677423	0.2864657	0.3054604	0.3246119	0.3440654	0.3637170	
58	0.2492186	0.2677392	0.2864608	0.3054555	0.3246065	0.3440608	0.3637124	
59	0.2492167	0.2677361	0.2864559	0.3054506	0.3246011	0.3440562	0.3637078	
60	0.2492148	0.2677330	0.2864510	0.3054457	0.3245957	0.3440516	0.3637032	

	14°	15°	16°	17°	18°	19°	20°	
0	1.036126	1.0352702	1.0402991	1.0456918	1.0514632	1.0576207	1.0641778	60
1	1.0366884	1.0353509	1.0402863	1.0457848	1.0515617	1.0577267	1.0642905	59
2	1.0376733	1.0354378	1.0404732	1.0458780	1.0516812	1.0578328	1.0644033	58
3	1.0386883	1.0355187	1.0406602	1.0459712	1.0517608	1.0579390	1.0645163	57
4	1.0399124	1.0355998	1.0406473	1.0460646	1.0518606	1.0580453	1.0646294	56
5	1.0399886	1.0356809	1.0407346	1.0461581	1.0519605	1.0581517	1.0647425	55
6	1.0310639	1.0357621	1.0408219	1.0462516	1.0520604	1.0582583	1.0648558	54
7	1.0311393	1.0358433	1.0409091	1.0463453	1.0521605	1.0583649	1.0649693	53
8	1.0312147	1.0359249	1.0409969	1.0464391	1.0522607	1.0584717	1.0650828	52
9	1.0312903	1.0360065	1.0410845	1.0465330	1.0523610	1.0585788	1.0651964	51
10	1.0313660	1.0360881	1.0411723	1.0466270	1.0524614	1.0586855	1.0653102	50
11	1.0314418	1.0361699	1.0412601	1.0467211	1.0525619	1.0587926	1.0654240	49
12	1.0315177	1.0362517	1.0413481	1.0468153	1.0526625	1.0588999	1.0655380	48
13	1.0315936	1.0363337	1.0414362	1.0469096	1.0527633	1.0590072	1.0656521	47
14	1.0316697	1.0364157	1.0415243	1.0470040	1.0528641	1.0591146	1.0657663	46
15	1.0317458	1.0364979	1.0416126	1.0470986	1.0529651	1.0592221	1.0658807	45
16	1.0318222	1.0365801	1.0417009	1.0471932	1.0530661	1.0593298	1.0659951	44
17	1.0318985	1.0366625	1.0417894	1.0472879	1.0531673	1.0594370	1.0661097	43
18	1.0319750	1.0367449	1.0418780	1.0473828	1.0532686	1.0595454	1.0662243	42
19	1.0320516	1.0368275	1.0419667	1.0474777	1.0533699	1.0596534	1.0663391	41
20	1.0321282	1.0369101	1.0420554	1.0475728	1.0534714	1.0597615	1.0664540	40
21	1.0322050	1.0369929	1.0421443	1.0476679	1.0535730	1.0598697	1.0665690	39
22	1.0322818	1.0370757	1.0422333	1.0477632	1.0536747	1.0599781	1.0666842	38
23	1.0323584	1.0371587	1.0423224	1.0478586	1.0537765	1.0600865	1.0667994	37
24	1.0324359	1.0372417	1.0424116	1.0479540	1.0538785	1.0601951	1.0669148	36
25	1.0325130	1.0373249	1.0425009	1.0480496	1.0539805	1.0603037	1.0670302	35
26	1.0325903	1.0374082	1.0425903	1.0481453	1.0540826	1.0604125	1.0671458	34
27	1.0326676	1.0374915	1.0426798	1.0482411	1.0541849	1.0605214	1.0672615	33
28	1.0327451	1.0375750	1.0427694	1.0483370	1.0542873	1.0606304	1.0673774	32
29	1.0328227	1.0376585	1.0428591	1.0484330	1.0543897	1.0607395	1.0674933	31
30	1.0329003	1.0377422	1.0429489	1.0485291	1.0544923	1.0608487	1.0676094	30
31	1.0329781	1.0378260	1.0430398	1.0486253	1.0545950	1.0609580	1.0677255	29
32	1.0330559	1.0379098	1.0431310	1.0487217	1.0546978	1.0610675	1.0678418	28
33	1.0331339	1.0379938	1.0432189	1.0488181	1.0548007	1.0611770	1.0679582	27
34	1.0332119	1.0380779	1.0433092	1.0489146	1.0549037	1.0612867	1.0680747	26
35	1.0332901	1.0381621	1.0433993	1.0490113	1.0550068	1.0613963	1.0681914	25
36	1.0333683	1.0382463	1.0434900	1.0491080	1.0551101	1.0615064	1.0683081	24
37	1.0334467	1.0383307	1.0435805	1.0492049	1.0552134	1.0616164	1.0684250	23
38	1.0335251	1.0384152	1.0436712	1.0493019	1.0553169	1.0617265	1.0685420	22
39	1.0336037	1.0384998	1.0437619	1.0493989	1.0554204	1.0618367	1.0686591	21
40	1.0336823	1.0385844	1.0438528	1.0494961	1.0555241	1.0619471	1.0687763	20
41	1.0337611	1.0386692	1.0439437	1.0495934	1.0556279	1.0620575	1.0688936	19
42	1.0338399	1.0387541	1.0440346	1.0496908	1.0557318	1.0621681	1.0690110	18
43	1.0339188	1.0388390	1.0441259	1.0497883	1.0558358	1.0622788	1.0691286	17
44	1.0339979	1.0389242	1.0442172	1.0498859	1.0559399	1.0623896	1.0692463	16
45	1.0340770	1.0390094	1.0443086	1.0499836	1.0560441	1.0625005	1.0693641	15
46	1.0341563	1.0390947	1.0444001	1.0500815	1.0561485	1.0626115	1.0694820	14
47	1.0342356	1.0391800	1.0444917	1.0501794	1.0562529	1.0627227	1.0696000	13
48	1.0343151	1.0392653	1.0445833	1.0502774	1.0563575	1.0628339	1.0697182	12
49	1.0343946	1.0393511	1.0446751	1.0503756	1.0564621	1.0629453	1.0698364	11
50	1.0344743	1.0394368	1.0447670	1.0504738	1.0565669	1.0630568	1.0699548	10
51	1.0345540	1.0395226	1.0448590	1.0505722	1.0566718	1.0631684	1.0700733	9
52	1.0346338	1.0396085	1.0449511	1.0506706	1.0567768	1.0632801	1.0701919	8
53	1.0347138	1.0396945	1.0450433	1.0507692	1.0568819	1.0633919	1.0703106	7
54	1.0347938	1.0397806	1.0451357	1.0508679	1.0569871	1.0635038	1.0704295	6
55	1.0348740	1.0398669	1.0452281	1.0509667	1.0570924	1.0636158	1.0705484	5
56	1.0349544	1.0399532	1.0453206	1.0510660	1.0571978	1.0637280	1.0706675	4
57	1.0350346	1.0400396	1.0454132	1.0511646	1.0573034	1.0638403	1.0707867	3
58	1.0351150	1.0401261	1.0455060	1.0512637	1.0574090	1.0639527	1.0709060	2
59	1.0351955	1.0402127	1.0455988	1.0513629	1.0575148	1.0640652	1.0710254	1
60	1.0352762	1.0402994	1.0456918	1.0514632	1.0576207	1.0641778	1.0711460	0
	78°	76°	75°	73°	71°	70°	69°	

	21°	22°	23°	24°	25°	26°	27°	
0	0.388640	0.4040202	0.4244748	0.4452287	0.4663077	0.4877336	0.5093254	60
1	.2841978	.4013646	.4218182	.4435773	.4666618	.4880927	.5098919	59
2	.2845317	.4017031	.4221616	.4439260	.4670161	.4884530	.5102585	58
3	.2848656	.4020417	.4225051	.4442747	.4673705	.4888133	.5106252	57
4	.2851996	.4023804	.4228487	.4446236	.4677250	.4891737	.5109910	56
5	.2855337	.4027191	.4231924	.4449726	.4680796	.4895343	.5113568	55
6	.2858670	.4030579	.4235361	.4453216	.4684342	.4898949	.5117230	54
7	.2862021	.4033968	.4238800	.4456708	.4687890	.4902557	.5120893	53
8	.2865364	.4037358	.4242239	.4460200	.4691439	.4906166	.5124560	52
9	.2868708	.4040749	.4245680	.4463693	.4694988	.4909775	.5128275	51
10	0.2872053	0.4044139	0.4249121	0.4467187	0.4698539	0.4913386	0.5131950	50
11	.2875398	.4047531	.4252563	.4470682	.4702090	.4916997	.5135625	49
12	.2878744	.4050924	.4256005	.4474178	.4705643	.4920610	.5139302	48
13	.2882091	.4054318	.4259449	.4477675	.4709196	.4924224	.5142980	47
14	.2885430	.4057713	.4262894	.4481172	.4712751	.4927838	.5146668	46
15	.2888787	.4061108	.4266339	.4484670	.4716300	.4931454	.5150338	45
16	.2892136	.4064504	.4269785	.4488171	.4719853	.4935071	.5154019	44
17	.2895486	.4067901	.4273232	.4491672	.4723420	.4938689	.5157702	43
18	.2898837	.4071299	.4276680	.4495173	.4726978	.4942308	.5161385	42
19	.2902180	.4074697	.4280129	.4498676	.4730538	.4945928	.5165069	41
20	0.2905541	0.4078097	0.4283579	0.4502179	0.4734098	0.4949549	0.5168755	40
21	.2908894	.4111407	.4317030	.4525683	.4737659	.4953171	.5172441	39
22	.2912247	.4114898	.4320481	.4529188	.4741222	.4956794	.5176129	38
23	.2915602	.4118390	.4323933	.4532694	.4744785	.4960418	.5179818	37
24	.2918957	.4121793	.4327386	.4536201	.4748349	.4964043	.5183508	36
25	.2922313	.4125196	.4330840	.4539709	.4751914	.4967668	.5187199	35
26	.2925670	.4128510	.4334295	.4543218	.4755481	.4971297	.5190891	34
27	.2929027	.4131915	.4337751	.4546728	.4759048	.4974925	.5194584	33
28	.2932380	.4135323	.4341208	.4550238	.4762616	.4978554	.5198278	32
29	.2935745	.4138728	.4344665	.4553750	.4766185	.4982185	.5201974	31
30	0.2939105	0.4142136	0.4348121	0.4557263	0.4769755	0.4985816	0.5205671	30
31	.2942465	.4145544	.4351583	.4560776	.4773322	.4989449	.5209368	29
32	.2945827	.4148953	.4355043	.4564290	.4776890	.4993083	.5213067	28
33	.2949189	.4152363	.4358504	.4567806	.4780472	.4996717	.5216767	27
34	.2952552	.4155774	.4361968	.4571322	.4784048	.5000352	.5220468	26
35	.2955916	.4159186	.4365429	.4574839	.4787627	.5003989	.5224170	25
36	.2959280	.4162598	.4368893	.4578357	.4791197	.5007627	.5227874	24
37	.2962645	.4166012	.4372357	.4581877	.4794774	.5011266	.5231578	23
38	.2966011	.4169426	.4375823	.4585395	.4798352	.5014906	.5235284	22
39	.2969378	.4172841	.4379289	.4588918	.4801932	.5018547	.5238990	21
40	0.2972746	0.4176257	0.4382756	0.4592499	0.4805512	0.5022189	0.5242698	20
41	.2976114	.4179673	.4386224	.4596062	.4809093	.5025825	.5246407	19
42	.2979483	.4183091	.4389693	.4599626	.4812675	.5029464	.5250117	18
43	.2982853	.4186509	.4393163	.4603191	.4816258	.5033121	.5253829	17
44	.2986224	.4189928	.4396634	.4606757	.4819842	.5036788	.5257541	16
45	.2989595	.4193348	.4400105	.4610323	.4823427	.5040415	.5261255	15
46	.2992968	.4196769	.4403578	.4613891	.4827014	.5044053	.5264969	14
47	.2996341	.4200190	.4407051	.4617461	.4830601	.5047713	.5268685	13
48	.2999715	.4203613	.4410526	.4621034	.4834189	.5051363	.5272402	12
49	.3003089	.4207036	.4414001	.4624611	.4837778	.5055015	.5276120	11
50	0.3006465	0.4210460	0.4417477	0.4628177	0.4841368	0.5058668	0.5279839	10
51	.3009841	.4213885	.4420954	.4631743	.4844959	.5062322	.5283560	9
52	.3013218	.4217311	.4424432	.4635317	.4848559	.5065977	.5287281	8
53	.3016596	.4220738	.4427910	.4638891	.4852145	.5069633	.5291004	7
54	.3019974	.4224163	.4431390	.4642465	.4855739	.5073290	.5294727	6
55	.3023354	.4227594	.4434871	.4646042	.4859334	.5076948	.5298452	5
56	.3026734	.4231023	.4438352	.4649619	.4862931	.5080607	.5302178	4
57	.3030115	.4234453	.4441834	.4653197	.4866528	.5084267	.5305906	3
58	.3033496	.4237884	.4445318	.4656786	.4870126	.5087929	.5309634	2
59	.3036879	.4241316	.4448803	.4660376	.4873726	.5091591	.5313364	1
60	0.3040263	0.4244748	0.4452287	0.4663977	0.4877336	0.5095254	0.5317094	0
	68°	67°	66°	65°	64°	63°	62°	

	21°	22°	23°	24°	25°	26°	27°	
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1	1-0712047	1-0786616	1-0864946	1-0947781	1-1035277	1-1127599	1-1224947	59
2	1-0712644	1-0789885	1-0866289	1-0949201	1-1036775	1-1129179	1-1226635	58
3	1-0713243	1-0793156	1-0867624	1-0950622	1-1038275	1-1130761	1-1228326	57
4	1-0713844	1-0796427	1-0868979	1-0952044	1-1039777	1-1132345	1-1229928	56
5	1-0714445	1-0799698	1-0870326	1-0953467	1-1041279	1-1133929	1-1231536	55
6	1-0715047	1-0802975	1-0871675	1-0954892	1-1042783	1-1135516	1-1233150	54
7	1-0715651	1-0806250	1-0873024	1-0956318	1-1044289	1-1137108	1-1234762	53
8	1-0716256	1-0809527	1-0874375	1-0957746	1-1045795	1-1138699	1-1236381	52
9	1-0716862	1-0812805	1-0875727	1-0959174	1-1047303	1-1140293	1-1238002	51
10	1-0717469	1-0816084	1-0877080	1-0960604	1-1048813	1-1141874	1-1239629	50
11	1-0718078	1-0819364	1-0878435	1-0962036	1-1050324	1-1143467	1-1241268	49
12	1-0718687	1-0822646	1-0879791	1-0963468	1-1051836	1-1145062	1-1242918	48
13	1-0719298	1-0825929	1-0881148	1-0964902	1-1053349	1-1146658	1-1244570	47
14	1-0719910	1-0829213	1-0882506	1-0966337	1-1054864	1-1148255	1-1246223	46
15	1-0720523	1-0832497	1-0883866	1-0967774	1-1056380	1-1149854	1-1247877	45
16	1-0721137	1-0835784	1-0885226	1-0969212	1-1057898	1-1151454	1-1249532	44
17	1-0721753	1-0839071	1-0886589	1-0970651	1-1059417	1-1153056	1-1251189	43
18	1-0722370	1-0842360	1-0887952	1-0972091	1-1060937	1-1154659	1-1252848	42
19	1-0722988	1-0845650	1-0889317	1-0973533	1-1062458	1-1156263	1-1254509	41
20	1-0723607	1-0848942	1-0890682	1-0974976	1-1063981	1-1157869	1-1256171	40
21	1-0724227	1-0852234	1-0892050	1-0976420	1-1065506	1-1159476	1-1257834	39
22	1-0724848	1-0855528	1-0893418	1-0977866	1-1067031	1-1161084	1-1259500	38
23	1-0725471	1-0858823	1-0894788	1-0979313	1-1068558	1-1162694	1-1261167	37
24	1-0726095	1-0862119	1-0896159	1-0980761	1-1070087	1-1164306	1-1262836	36
25	1-0726720	1-0865417	1-0897531	1-0982211	1-1071616	1-1165919	1-1264507	35
26	1-0727346	1-0868715	1-0898904	1-0983662	1-1073147	1-1167533	1-1266180	34
27	1-0727973	1-0872015	1-0900279	1-0985114	1-1074680	1-1169148	1-1267855	33
28	1-0728601	1-0875316	1-0901655	1-0986568	1-1076214	1-1170766	1-1269532	32
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43	1-0738141	1-0924980	1-0922448	1-1008539	1-1099425	1-1195191	1-1294837	17
44	1-0738785	1-0928301	1-0923845	1-1010004	1-1100994	1-1196831	1-1296532	16
45	1-0739430	1-0931622	1-0925243	1-1011480	1-1102568	1-1198472	1-1298228	15
46	1-0740075	1-0934947	1-0926642	1-1012957	1-1104146	1-1200115	1-1299924	14
47	1-0740721	1-0938271	1-0928043	1-1014436	1-1105716	1-1201759	1-1301620	13
48	1-0741368	1-0941597	1-0929444	1-1015916	1-1107277	1-1203404	1-1303316	12
49	1-0742015	1-0944924	1-0930846	1-1017397	1-1108840	1-1205051	1-1305012	11
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51	1-0743311	1-0951582	1-0933656	1-1020365	1-1111969	1-1208350	1-1308406	9
52	1-0743960	1-0954913	1-0935063	1-1021849	1-1113536	1-1210001	1-1310103	8
53	1-0744610	1-0958245	1-0936471	1-1023333	1-1115104	1-1211653	1-1311800	7
54	1-0745260	1-0961578	1-0937880	1-1024818	1-1116673	1-1213308	1-1313507	6
55	1-0745911	1-0964912	1-0939291	1-1026303	1-1118244	1-1214963	1-1315214	5
56	1-0746562	1-0968248	1-0940702	1-1027789	1-1119816	1-1216620	1-1316921	4
57	1-0747214	1-0971585	1-0942116	1-1029275	1-1121390	1-1218278	1-1318628	3
58	1-0747866	1-0974924	1-0943530	1-1030761	1-1122965	1-1219938	1-1320335	2
59	1-0748519	1-0978263	1-0944946	1-1032248	1-1124543	1-1221600	1-1322042	1
60	1-0749173	1-0981604	1-0946363	1-1033737	1-1126124	1-1223262	1-1323750	0
	68°	67°	66°	65°	64°	63°	62°	

	28°	29°	30°	31°	32°	33°	34°	
0	0.5317094	0.5344801	0.5372508	0.5400206	0.5427894	0.5455582	0.5483269	60
1	0.5318926	0.5346633	0.5374340	0.5402038	0.5429726	0.5457414	0.5485101	59
2	0.5320758	0.5348465	0.5376172	0.5403869	0.5431557	0.5459245	0.5486932	58
3	0.5322590	0.5350307	0.5378004	0.5405701	0.5433389	0.5461077	0.5488764	57
4	0.5324422	0.5352139	0.5379836	0.5407533	0.5435221	0.5462909	0.5490596	56
5	0.5326254	0.5353971	0.5381668	0.5409365	0.5437053	0.5464741	0.5492428	55
6	0.5328086	0.5355803	0.5383500	0.5411197	0.5438885	0.5466573	0.5494260	54
7	0.5329918	0.5357635	0.5385332	0.5413029	0.5440717	0.5468405	0.5496092	53
8	0.5331750	0.5359467	0.5387164	0.5414861	0.5442549	0.5470237	0.5497924	52
9	0.5333582	0.5361299	0.5388996	0.5416693	0.5444381	0.5472069	0.5499756	51
10	0.5335414	0.5363131	0.5390828	0.5418525	0.5446213	0.5473901	0.5501588	50
11	0.5337246	0.5364963	0.5392660	0.5420357	0.5448045	0.5475733	0.5503420	49
12	0.5339078	0.5366795	0.5394492	0.5422189	0.5449877	0.5477565	0.5505252	48
13	0.5340910	0.5368627	0.5396324	0.5424021	0.5451709	0.5479397	0.5507084	47
14	0.5342742	0.5370459	0.5398156	0.5425853	0.5453541	0.5481229	0.5508916	46
15	0.5344574	0.5372291	0.5400000	0.5427685	0.5455373	0.5483061	0.5510748	45
16	0.5346406	0.5374123	0.5401832	0.5429517	0.5457205	0.5484893	0.5512580	44
17	0.5348238	0.5375955	0.5403664	0.5431349	0.5459037	0.5486725	0.5514412	43
18	0.5350070	0.5377787	0.5405496	0.5433181	0.5460869	0.5488557	0.5516244	42
19	0.5351902	0.5379619	0.5407328	0.5435013	0.5462701	0.5490389	0.5518076	41
20	0.5353734	0.5381451	0.5409160	0.5436845	0.5464533	0.5492221	0.5519908	40
21	0.5355566	0.5383283	0.5410992	0.5438677	0.5466365	0.5494053	0.5521740	39
22	0.5357398	0.5385115	0.5412824	0.5440509	0.5468197	0.5495885	0.5523572	38
23	0.5359230	0.5386947	0.5414656	0.5442341	0.5470029	0.5497717	0.5525404	37
24	0.5361062	0.5388779	0.5416488	0.5444173	0.5471861	0.5499549	0.5527236	36
25	0.5362894	0.5390611	0.5418320	0.5446005	0.5473693	0.5501381	0.5529068	35
26	0.5364726	0.5392443	0.5420152	0.5447837	0.5475525	0.5503213	0.5530900	34
27	0.5366558	0.5394275	0.5421984	0.5449669	0.5477357	0.5505045	0.5532732	33
28	0.5368390	0.5396107	0.5423816	0.5451501	0.5479189	0.5506877	0.5534564	32
29	0.5370222	0.5397939	0.5425648	0.5453333	0.5481021	0.5508709	0.5536396	31
30	0.5372054	0.5399771	0.5427480	0.5455165	0.5482853	0.5510541	0.5538228	30
31	0.5373886	0.5401603	0.5429312	0.5456997	0.5484685	0.5512373	0.5540060	29
32	0.5375718	0.5403435	0.5431144	0.5458829	0.5486517	0.5514205	0.5541892	28
33	0.5377550	0.5405267	0.5432976	0.5460661	0.5488349	0.5516037	0.5543724	27
34	0.5379382	0.5407099	0.5434808	0.5462493	0.5490181	0.5517869	0.5545556	26
35	0.5381214	0.5408931	0.5436640	0.5464325	0.5492013	0.5519701	0.5547388	25
36	0.5383046	0.5410763	0.5438472	0.5466157	0.5493845	0.5521533	0.5549220	24
37	0.5384878	0.5412595	0.5440304	0.5467989	0.5495677	0.5523365	0.5551052	23
38	0.5386710	0.5414427	0.5442136	0.5469821	0.5497509	0.5525197	0.5552884	22
39	0.5388542	0.5416259	0.5443968	0.5471653	0.5499341	0.5527029	0.5554716	21
40	0.5390374	0.5418091	0.5445800	0.5473485	0.5501173	0.5528861	0.5556548	20
41	0.5392206	0.5419923	0.5447632	0.5475317	0.5503005	0.5530693	0.5558380	19
42	0.5394038	0.5421755	0.5449464	0.5477149	0.5504837	0.5532525	0.5560212	18
43	0.5395870	0.5423587	0.5451296	0.5478981	0.5506669	0.5534357	0.5562044	17
44	0.5397702	0.5425419	0.5453128	0.5480813	0.5508501	0.5536189	0.5563876	16
45	0.5399534	0.5427251	0.5454960	0.5482645	0.5510333	0.5538021	0.5565708	15
46	0.5401366	0.5429083	0.5456792	0.5484477	0.5512165	0.5539853	0.5567540	14
47	0.5403198	0.5430915	0.5458624	0.5486309	0.5514000	0.5541685	0.5569372	13
48	0.5405030	0.5432747	0.5460456	0.5488141	0.5515832	0.5543517	0.5571204	12
49	0.5406862	0.5434579	0.5462288	0.5489973	0.5517664	0.5545349	0.5573036	11
50	0.5408694	0.5436411	0.5464120	0.5491805	0.5519496	0.5547181	0.5574868	10
51	0.5410526	0.5438243	0.5465952	0.5493637	0.5521328	0.5549013	0.5576700	9
52	0.5412358	0.5440075	0.5467784	0.5495469	0.5523160	0.5550845	0.5578532	8
53	0.5414190	0.5441907	0.5469616	0.5497301	0.5524992	0.5552677	0.5580364	7
54	0.5416022	0.5443739	0.5471448	0.5499133	0.5526824	0.5554509	0.5582196	6
55	0.5417854	0.5445571	0.5473280	0.5500965	0.5528656	0.5556341	0.5584028	5
56	0.5419686	0.5447403	0.5475112	0.5502797	0.5530488	0.5558173	0.5585860	4
57	0.5421518	0.5449235	0.5476944	0.5504629	0.5532320	0.5560005	0.5587692	3
58	0.5423350	0.5451067	0.5478776	0.5506461	0.5534152	0.5561837	0.5589524	2
59	0.5425182	0.5452899	0.5480608	0.5508293	0.5535984	0.5563669	0.5591356	1
60	0.5427014	0.5454731	0.5482440	0.5510125	0.5537816	0.5565501	0.5593188	0
	0.1°	0.2°	0.3°	0.4°	0.5°	0.6°	0.7°	

	28°	29°	30°	31°	32°	33°	34°	
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2	1-1228207	1-1434231	1-1549087	1-1667416	1-1792854	1-1923113	1-2063717	58
3	1-1228963	1-1434578	1-1550130	1-1667959	1-1793385	1-1923340	1-2063987	57
4	1-1229719	1-1434927	1-1551175	1-1668504	1-1793917	1-1923568	1-2064258	56
5	1-1230478	1-1435278	1-1552222	1-1669051	1-1794450	1-1923796	1-2064529	55
6	1-1231238	1-1435630	1-1553270	1-1669599	1-1794983	1-1924024	1-2064800	54
7	1-1231999	1-1435984	1-1554320	1-1670149	1-1795517	1-1924252	1-2065071	53
8	1-1232763	1-1436339	1-1555372	1-1670707	1-1796052	1-1924481	1-2065342	52
9	1-1233529	1-1436695	1-1556425	1-1671267	1-1796588	1-1924711	1-2065613	51
10	1-1234297	1-1437053	1-1557480	1-1671829	1-1797125	1-1924942	1-2065884	50
11	1-1235066	1-1437413	1-1558536	1-1672393	1-1797663	1-1925173	1-2066155	49
12	1-1235837	1-1437775	1-1559594	1-1672959	1-1798202	1-1925405	1-2066426	48
13	1-1236609	1-1438139	1-1560654	1-1673527	1-1798742	1-1925637	1-2066697	47
14	1-1237383	1-1438505	1-1561716	1-1674097	1-1799283	1-1925870	1-2066968	46
15	1-1238158	1-1438873	1-1562780	1-1674669	1-1800000	1-1926103	1-2067239	45
16	1-1238935	1-1439243	1-1563846	1-1675243	1-1800639	1-1926337	1-2067510	44
17	1-1239713	1-1439615	1-1564914	1-1675819	1-1801279	1-1926572	1-2067781	43
18	1-1240493	1-1440000	1-1565984	1-1676397	1-1801921	1-1926807	1-2068052	42
19	1-1241275	1-1440387	1-1567056	1-1676977	1-1802564	1-1927043	1-2068323	41
20	1-1242059	1-1440776	1-1568130	1-1677559	1-1803209	1-1927280	1-2068594	40
21	1-1242845	1-1441167	1-1569206	1-1678143	1-1803855	1-1927517	1-2068865	39
22	1-1243633	1-1441560	1-1570284	1-1678729	1-1804503	1-1927755	1-2069136	38
23	1-1244423	1-1441955	1-1571364	1-1679317	1-1805152	1-1927993	1-2069407	37
24	1-1245215	1-1442352	1-1572446	1-1679907	1-1805803	1-1928232	1-2069678	36
25	1-1246009	1-1442751	1-1573530	1-1680500	1-1806455	1-1928472	1-2069949	35
26	1-1246805	1-1443152	1-1574616	1-1681095	1-1807108	1-1928713	1-2070220	34
27	1-1247603	1-1443555	1-1575704	1-1681692	1-1807763	1-1928955	1-2070491	33
28	1-1248403	1-1443960	1-1576794	1-1682291	1-1808419	1-1929197	1-2070762	32
29	1-1249205	1-1444367	1-1577886	1-1682892	1-1809076	1-1929440	1-2071033	31
30	1-1250009	1-1444776	1-1578980	1-1683495	1-1809734	1-1929683	1-2071304	30
31	1-1250815	1-1445187	1-1580076	1-1684100	1-1810393	1-1929927	1-2071575	29
32	1-1251623	1-1445599	1-1581174	1-1684707	1-1811053	1-1930172	1-2071846	28
33	1-1252433	1-1446013	1-1582274	1-1685316	1-1811714	1-1930417	1-2072117	27
34	1-1253245	1-1446429	1-1583376	1-1685927	1-1812376	1-1930663	1-2072388	26
35	1-1254059	1-1446846	1-1584480	1-1686540	1-1813039	1-1930910	1-2072659	25
36	1-1254875	1-1447265	1-1585586	1-1687155	1-1813703	1-1931157	1-2072930	24
37	1-1255693	1-1447686	1-1586694	1-1687772	1-1814368	1-1931405	1-2073201	23
38	1-1256513	1-1448109	1-1587804	1-1688391	1-1815034	1-1931653	1-2073472	22
39	1-1257335	1-1448534	1-1588916	1-1689012	1-1815701	1-1931902	1-2073743	21
40	1-1258159	1-1448961	1-1590030	1-1689635	1-1816369	1-1932151	1-2074014	20
41	1-1258985	1-1449390	1-1591146	1-1690260	1-1817038	1-1932401	1-2074285	19
42	1-1259813	1-1449821	1-1592264	1-1690887	1-1817708	1-1932651	1-2074556	18
43	1-1260643	1-1450254	1-1593384	1-1691516	1-1818379	1-1932902	1-2074827	17
44	1-1261475	1-1450689	1-1594506	1-1692147	1-1819051	1-1933153	1-2075098	16
45	1-1262309	1-1451126	1-1595630	1-1692780	1-1819724	1-1933405	1-2075369	15
46	1-1263145	1-1451565	1-1596756	1-1693415	1-1820398	1-1933657	1-2075640	14
47	1-1263983	1-1452006	1-1597884	1-1694052	1-1821073	1-1933910	1-2075911	13
48	1-1264823	1-1452449	1-1599014	1-1694691	1-1821749	1-1934163	1-2076182	12
49	1-1265665	1-1452894	1-1600146	1-1695332	1-1822426	1-1934417	1-2076453	11
50	1-1266509	1-1453341	1-1601280	1-1695975	1-1823104	1-1934672	1-2076724	10
51	1-1267355	1-1453790	1-1602416	1-1696620	1-1823783	1-1934928	1-2076995	9
52	1-1268203	1-1454241	1-1603554	1-1697267	1-1824463	1-1935184	1-2077266	8
53	1-1269053	1-1454694	1-1604694	1-1697916	1-1825144	1-1935441	1-2077537	7
54	1-1269905	1-1455149	1-1605836	1-1698567	1-1825826	1-1935698	1-2077808	6
55	1-1270759	1-1455606	1-1606980	1-1699220	1-1826509	1-1935956	1-2078079	5
56	1-1271615	1-1456065	1-1608126	1-1700000	1-1827193	1-1936215	1-2078350	4
57	1-1272473	1-1456526	1-1609274	1-1700683	1-1827878	1-1936475	1-2078621	3
58	1-1273333	1-1456989	1-1610424	1-1701368	1-1828564	1-1936736	1-2078892	2
59	1-1274195	1-1457454	1-1611576	1-1702054	1-1829251	1-1937000	1-2079163	1
60	1-1275059	1-1457921	1-1612730	1-1702742	1-1830000	1-1937265	1-2079434	0
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	35°	36°	37°	38°	39°	40°	41°	
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1	.7006411	.7263971	.7531902	.7811412	.8102658	.8395953	.8697976	59
2	.7010749	.7274318	.7544666	.7822229	.8107178	.8400915	.8703087	58
3	.7015089	.7287677	.7559233	.7835919	.8112300	.8405878	.8708900	57
4	.7019430	.7293318	.7565379	.7841611	.8117124	.8410844	.8713316	56
5	.7023772	.7297671	.7570869	.7847305	.8121951	.8415812	.8718485	55
6	.7028118	.7302125	.7576294	.7853002	.8126780	.8420782	.8723566	54
7	.7032464	.7306582	.7581714	.7858700	.8131611	.8425765	.8728680	53
8	.7036813	.7311041	.7587268	.7864400	.8136444	.8430730	.8733806	52
9	.7041163	.7315501	.7592868	.7870103	.8141280	.8435708	.8738935	51
10	0.7045515	0.7320069	0.7598529	0.7875808	0.8146118	0.8440698	0.8744067	50
11	.7049869	.7324528	.7604229	.7881516	.8150958	.8445670	.8749201	49
12	.7054224	.7328984	.7609943	.7887226	.8155801	.8450635	.8754338	48
13	.7058581	.7333433	.7615699	.7892939	.8160646	.8455593	.8759478	47
14	.7062940	.7337883	.7621477	.7898654	.8165493	.8460533	.8764620	46
15	.7067301	.7342330	.7627269	.7904369	.8170343	.8465465	.8769765	45
16	.7071664	.7346777	.7633033	.7910082	.8175195	.8470390	.8774913	44
17	.7076028	.7351223	.7638763	.7915795	.8180049	.8475317	.8780063	43
18	.7080395	.7355670	.7644519	.7921508	.8184905	.8480246	.8785215	42
19	.7084763	.7360110	.7650245	.7927221	.8189764	.8485169	.8790370	41
20	0.7089133	0.7364561	0.7655975	0.7932934	0.8194625	0.8490094	0.8795528	40
21	.7093504	.7369017	.7661709	.7938648	.8199488	.8495021	.8800688	39
22	.7097878	.7373466	.7667433	.7944361	.8204354	.8500050	.8805852	38
23	.7102253	.7377917	.7673157	.7950075	.8209223	.8505083	.8811017	37
24	.7106630	.7382366	.7678882	.7955789	.8214093	.8510117	.8816186	36
25	.7111009	.7386815	.7684607	.7961503	.8218963	.8515152	.8821357	35
26	.7115390	.7391264	.7690332	.7967217	.8223834	.8520186	.8826531	34
27	.7119772	.7395713	.7696057	.7972931	.8228704	.8525221	.8831707	33
28	.7124157	.7400162	.7701782	.7978645	.8233575	.8530256	.8836886	32
29	.7128543	.7404611	.7707507	.7984359	.8238446	.8535291	.8842068	31
30	0.7132931	0.7409060	0.7713232	0.7990073	0.8243317	0.8540326	0.8847253	30
31	.7137320	.7413509	.7718957	.7995787	.8248188	.8545361	.8852430	29
32	.7141712	.7417958	.7724682	.8001501	.8253059	.8550396	.8857610	28
33	.7146106	.7422407	.7730407	.8007215	.8257930	.8555431	.8862792	27
34	.7150501	.7426856	.7736132	.8012929	.8262801	.8560466	.8867976	26
35	.7154898	.7431305	.7741857	.8018643	.8267672	.8565501	.8873161	25
36	.7159297	.7435754	.7747582	.8024357	.8272543	.8570536	.8878347	24
37	.7163698	.7440203	.7753307	.8030071	.8277414	.8575571	.8883532	23
38	.7168100	.7444652	.7759032	.8035785	.8282285	.8580606	.8888718	22
39	.7172503	.7449101	.7764757	.8041499	.8287156	.8585641	.8893903	21
40	0.7176911	0.7453550	0.7770482	0.8047213	0.8292027	0.8590676	0.8899089	20
41	.7181319	.7458000	.7776207	.8052927	.8296898	.8595711	.8904274	19
42	.7185729	.7462449	.7781932	.8058641	.8301769	.8600746	.8909460	18
43	.7190141	.7466898	.7787657	.8064355	.8306640	.8605781	.8914645	17
44	.7194554	.7471347	.7793382	.8070069	.8311511	.8610816	.8919831	16
45	.7198970	.7475796	.7799107	.8075783	.8316382	.8615851	.8925016	15
46	.7203387	.7480245	.7804832	.8081497	.8321253	.8620886	.8930202	14
47	.7207806	.7484694	.7810557	.8087211	.8326124	.8625921	.8935387	13
48	.7212227	.7489143	.7816282	.8092925	.8331000	.8630956	.8940573	12
49	.7216650	.7493592	.7822007	.8098639	.8335871	.8635991	.8945758	11
50	0.7221075	0.7498041	0.7827732	0.8104353	0.8340742	0.8641026	0.8950944	10
51	.7225503	.7502490	.7833457	.8110067	.8345613	.8646061	.8956129	9
52	.7229930	.7506939	.7839182	.8115781	.8350484	.8651096	.8961315	8
53	.7234358	.7511388	.7844907	.8121495	.8355355	.8656131	.8966500	7
54	.7238789	.7515837	.7850632	.8127209	.8360226	.8661166	.8971686	6
55	.7243227	.7520286	.7856357	.8132923	.8365097	.8666201	.8976871	5
56	.7247663	.7524735	.7862082	.8138637	.8369968	.8671236	.8982057	4
57	.7252101	.7529184	.7867807	.8144351	.8374839	.8676271	.8987242	3
58	.7256540	.7533633	.7873532	.8150065	.8379710	.8681306	.8992428	2
59	.7260982	.7538082	.7879257	.8155779	.8384581	.8686341	.8997613	1
60	0.7265425	0.7542531	0.7884982	0.8161493	0.8389452	0.8691376	0.9002799	0

	85°	86°	87°	88°	89°	90°	91°	
0	1.307746	1.2360480	1.2521257	1.2690182	1.2867096	1.3054073	1.3250130	60
1	1.3210233	1.2363393	1.2524103	1.2693067	1.2870038	1.3057261	1.3253493	59
2	1.3212723	1.2365909	1.2526830	1.2695955	1.2873663	1.3060451	1.3256837	58
3	1.3215215	1.2368526	1.2529601	1.2698845	1.2876700	1.3063644	1.3260194	57
4	1.3217708	1.2371146	1.2532358	1.2701787	1.2879740	1.3066839	1.3263554	56
5	1.2320304	1.2373708	1.2535108	1.2704682	1.2882782	1.3070038	1.3266918	55
6	1.2322702	1.2376308	1.2537865	1.2707529	1.2885827	1.3073239	1.3270284	54
7	1.2325202	1.2378910	1.2540625	1.2710429	1.2888876	1.3076442	1.3273653	53
8	1.2327703	1.2381547	1.2543387	1.2713331	1.2891935	1.3079649	1.3277024	52
9	1.2330207	1.2384178	1.2546151	1.2716235	1.2894977	1.3082858	1.3280399	51
10	1.2332713	1.2386811	1.2548917	1.2719142	1.2898032	1.3086069	1.3283776	50
11	1.2335222	1.2389446	1.2551685	1.2722052	1.2901090	1.3089284	1.3287156	49
12	1.2337732	1.2392183	1.2554456	1.2724963	1.2904150	1.3092501	1.3290530	48
13	1.2340244	1.2394833	1.2557230	1.2727877	1.2907213	1.3095720	1.3293925	47
14	1.2342758	1.2397484	1.2560005	1.2730794	1.2910278	1.3098943	1.3297314	46
15	1.2345274	1.2400108	1.2562782	1.2733712	1.2913348	1.3102168	1.3300706	45
16	1.2347793	1.2402754	1.2565562	1.2736634	1.2916416	1.3105396	1.3304100	44
17	1.2350313	1.2405403	1.2568345	1.2739557	1.2919489	1.3108626	1.3307497	43
18	1.2352836	1.2408059	1.2571129	1.2742484	1.2922561	1.3111860	1.3310897	42
19	1.2355361	1.2410704	1.2573916	1.2745412	1.2925642	1.3115095	1.3314301	41
20	1.2357887	1.2413359	1.2576705	1.2748343	1.2928728	1.3118334	1.3317704	40
21	1.2360416	1.2416016	1.2579497	1.2751276	1.2931806	1.3121575	1.3321115	39
22	1.2362947	1.2418675	1.2582291	1.2754213	1.2934889	1.3124820	1.3324537	38
23	1.2365480	1.2421336	1.2585087	1.2757161	1.2937980	1.3128066	1.3327972	37
24	1.2368015	1.2423999	1.2587885	1.2760107	1.2941071	1.3131316	1.3331429	36
25	1.2370552	1.2426665	1.2590686	1.2763034	1.2944164	1.3134569	1.3334779	35
26	1.2373091	1.2429333	1.2593489	1.2765960	1.2947261	1.3137823	1.3338203	34
27	1.2375633	1.2432003	1.2596294	1.2768898	1.2950359	1.3141081	1.3341629	33
28	1.2378176	1.2434675	1.2599102	1.2771878	1.2953460	1.3144344	1.3345058	32
29	1.2380722	1.2437349	1.2601912	1.2774831	1.2956564	1.3147604	1.3348489	31
30	1.2383269	1.2440026	1.2604724	1.2777787	1.2959670	1.3150870	1.3351924	30
31	1.2385810	1.2442704	1.2607539	1.2780744	1.2962770	1.3154139	1.3355362	29
32	1.2388371	1.2445385	1.2610358	1.2783705	1.2965890	1.3157410	1.3358802	28
33	1.2390924	1.2448069	1.2613175	1.2786667	1.2969004	1.3160684	1.3362242	27
34	1.2393480	1.2450754	1.2615997	1.2789632	1.2972121	1.3163961	1.3365692	26
35	1.2396039	1.2453442	1.2618820	1.2792600	1.2975240	1.3167240	1.3369141	25
36	1.2398599	1.2456131	1.2621647	1.2795570	1.2978362	1.3170523	1.3372594	24
37	1.2401161	1.2458823	1.2624475	1.2798543	1.2981487	1.3173808	1.3376049	23
38	1.2403725	1.2461518	1.2627306	1.2801518	1.2984614	1.3177096	1.3379507	22
39	1.2406292	1.2464214	1.2630140	1.2804495	1.2987743	1.3180386	1.3382968	21
40	1.2408861	1.2466913	1.2632975	1.2807475	1.2990876	1.3183680	1.3386432	20
41	1.2411432	1.2469614	1.2635813	1.2810457	1.2994011	1.3186977	1.3389898	19
42	1.2414004	1.2472317	1.2638653	1.2813442	1.2997148	1.3190274	1.3393368	18
43	1.2416579	1.2475022	1.2641496	1.2816430	1.3000288	1.3193576	1.3396841	17
44	1.2419156	1.2477730	1.2644341	1.2819419	1.3003431	1.3196881	1.3400316	16
45	1.2421736	1.2480440	1.2647188	1.2822412	1.3006576	1.3200188	1.3403795	15
46	1.2424317	1.2483152	1.2650038	1.2825407	1.3009724	1.3203498	1.3407276	14
47	1.2426900	1.2485866	1.2652890	1.2828404	1.3012875	1.3206810	1.3410761	13
48	1.2429486	1.2488582	1.2655745	1.2831404	1.3016028	1.3210128	1.3414248	12
49	1.2432074	1.2491302	1.2658601	1.2834406	1.3019184	1.3213444	1.3417738	11
50	1.2434664	1.2494023	1.2661460	1.2837411	1.3022343	1.3216765	1.3421232	10
51	1.2437256	1.2496746	1.2664323	1.2840418	1.3025504	1.3220089	1.3424729	9
52	1.2439850	1.2499471	1.2667186	1.2843428	1.3028667	1.3223416	1.3428227	8
53	1.2442446	1.2502199	1.2670052	1.2846440	1.3031834	1.3226745	1.3431729	7
54	1.2445044	1.2504929	1.2672921	1.2849455	1.3035003	1.3230077	1.3435234	6
55	1.2447645	1.2507661	1.2675793	1.2852473	1.3038173	1.3233413	1.3438742	5
56	1.2450248	1.2510396	1.2678665	1.2855493	1.3041344	1.3236750	1.3442253	4
57	1.2452852	1.2513133	1.2681541	1.2858519	1.3044526	1.3240091	1.3445767	3
58	1.2455459	1.2515872	1.2684419	1.2861539	1.3047700	1.3243435	1.3449284	2
59	1.2458069	1.2518613	1.2687299	1.2864566	1.3050878	1.3246781	1.3452804	1
60	1.2460680	1.2521357	1.2690182	1.2867596	1.3054073	1.3250130	1.3456327	0
	54°	53°	52°	51°	50°	49°	48°	

	42°	43°	44°	45°	46°	47°	48°	
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1	9009309	9330591	9662511	1-0005819	1-0361333	1-0729943	1-1112624	59
2	9014580	9335804	9668137	1-0011643	1-0367867	1-0736208	1-1119127	58
3	9019854	9341179	9673767	1-0017469	1-0374304	1-0742467	1-1125635	57
4	9025131	9346528	9679399	1-0023298	1-0380745	1-0748784	1-1132146	56
5	9030411	9351860	9685035	1-0029131	1-0387189	1-0755066	1-1138662	55
6	9035698	9357234	9690674	1-0034968	1-0393538	1-0761392	1-1145182	54
7	9040979	9362592	9696316	1-0040807	1-0399789	1-0767701	1-1151706	53
8	9046267	9367953	9701962	1-0046651	1-0406045	1-0773985	1-1158235	52
9	9051557	9373216	9707610	1-0052497	1-0412304	1-0780123	1-1164769	51
10	0-9656861	0-9379683	0-9713262	1-0058348	1-0418567	1-0786243	1-1171305	50
11	9063147	9385013	9718917	1-0064201	1-0424833	1-0792718	1-1177846	49
12	9068746	9390325	9724575	1-0070058	1-0431094	1-0799018	1-1184391	48
13	9073748	9395610	9730228	1-0075818	1-0437357	1-0805321	1-1190941	47
14	9079053	9401159	9735901	1-0081578	1-0443625	1-0811628	1-1197495	46
15	9083360	9406701	9741566	1-0087389	1-0449895	1-0817929	1-1204045	45
16	9088671	9412345	9747240	1-0093240	1-0456161	1-0824232	1-1210616	44
17	9093984	9418033	9752914	1-0099094	1-0462430	1-0830573	1-1217183	43
18	9099300	9423753	9758591	1-0104952	1-0468696	1-0836896	1-1223754	42
19	9104610	9429517	9764272	1-0111153	1-0474958	1-0843223	1-1230329	41
20	0-9109940	0-9434513	0-9769936	1-0117038	1-0481224	1-0849545	1-1236909	40
21	9115265	9440013	9775643	1-0122925	1-0487490	1-0855889	1-1243493	39
22	9120592	9445510	9781333	1-0128817	1-0493759	1-0862238	1-1250081	38
23	9125922	9451021	9787027	1-0134712	1-0499920	1-0868571	1-1256674	37
24	9131255	9456530	9792724	1-0140610	1-0506034	1-0874918	1-1263271	36
25	9136591	9462043	9798434	1-0146512	1-0512153	1-0881269	1-1269872	35
26	9141929	9467556	9804127	1-0152418	1-0518275	1-0887624	1-1276478	34
27	9147270	9473074	9809833	1-0158335	1-0524391	1-0893984	1-1283088	33
28	9152615	9478595	9815543	1-0164239	1-0530511	1-0900347	1-1289702	32
29	9157962	9484119	9821256	1-0170155	1-0536634	1-0906714	1-1296321	31
30	0-9163312	0-9489648	0-9826973	1-0176074	1-0542761	1-0913085	1-1302944	30
31	9168665	9495176	9832692	1-0181997	1-0548894	1-0919461	1-1309571	29
32	9174020	9500709	9838415	1-0187923	1-0555027	1-0925840	1-1316203	28
33	9179379	9506245	9844141	1-0193853	1-0561235	1-0932221	1-1322839	27
34	9184740	9511784	9849871	1-0199786	1-0567438	1-0938610	1-1329479	26
35	9190104	9517326	9855608	1-0205723	1-0573644	1-0945002	1-1336124	25
36	9195471	9522871	9861339	1-0211664	1-0579854	1-0951397	1-1342773	24
37	9200841	9528420	9867079	1-0217608	1-0586067	1-0957797	1-1349427	23
38	9206214	9533971	9872821	1-0223555	1-0592305	1-0964201	1-1356086	22
39	9211590	9539526	9878567	1-0229506	1-0598516	1-0970609	1-1362747	21
40	0-9216960	0-9545083	0-9884216	1-0235461	1-0604731	1-0977020	1-1369414	20
41	9222330	9550644	9890069	1-0241419	1-0610946	1-0983436	1-1376086	19
42	9227734	9556208	9895825	1-0247381	1-0617162	1-0989657	1-1382761	18
43	9233123	9561774	9901584	1-0253346	1-0623379	1-0995821	1-1389441	17
44	9238513	9567344	9907346	1-0259313	1-0629594	1-1002009	1-1396126	16
45	9243905	9572917	9913112	1-0265287	1-0635811	1-1008141	1-1402815	15
46	9249301	9578494	9918881	1-0271263	1-0642028	1-1014278	1-1409508	14
47	9254700	9584073	9924654	1-0277243	1-0648243	1-1020419	1-1416206	13
48	9260102	9589655	9930430	1-0283226	1-0654461	1-1026563	1-1422909	12
49	9265506	9595241	9936208	1-0289212	1-0660682	1-1032710	1-1429615	11
50	0-9270914	0-9600829	0-9941991	1-0295203	1-0666905	1-1038861	1-1436326	10
51	9276324	9606421	9947777	1-0301196	1-0673129	1-1044963	1-1443041	9
52	9281738	9612016	9953566	1-0307194	1-0679358	1-1051067	1-1449762	8
53	9287154	9617614	9959359	1-0313195	1-0685594	1-1057173	1-1456486	7
54	9292573	9623215	9965154	1-0319199	1-0691823	1-1063281	1-1463215	6
55	9297996	9628819	9970953	1-0325208	1-0698056	1-1069393	1-1469949	5
56	9303421	9634427	9976756	1-0331220	1-0704293	1-1075507	1-1476687	4
57	9308849	9640037	9982563	1-0337235	1-0710303	1-1081621	1-1483429	3
58	9314280	9645651	9988371	1-0343254	1-0716318	1-1087736	1-1490176	2
59	9319714	9651268	9994184	1-0349277	1-0722335	1-1093850	1-1496928	1
60	0-9325181	0-9656888	1-0000000	1-0355308	1-0728357	1-1099965	1-1503684	0
	42°	43°	44°	45°	46°	47°	48°	

	43°	44°	45°	46°	47°	48°	
0	1.3456377	1.3673975	1.3901636	1.4141238	1.4395565	1.4667792	1.4944765
1	1.3460953	1.3678685	1.3906543	1.4146251	1.4399904	1.4667798	1.4949996
2	1.3465595	1.3683399	1.3911308	1.4151070	1.4404248	1.4671949	1.4954481
3	1.3469914	1.3688116	1.3916036	1.4155493	1.4408592	1.4675533	1.4959270
4	1.3474449	1.3692836	1.3920788	1.4159619	1.4412941	1.4679119	1.4964118
5	1.3478972	1.3697559	1.3925463	1.4163749	1.4417295	1.4682713	1.4968961
6	1.3483495	1.3702285	1.3930167	1.4167883	1.4421652	1.4686309	1.4973813
7	1.3488017	1.3706985	1.3934893	1.4171920	1.4425901	1.4689910	1.4978670
8	1.3492539	1.3711685	1.3939640	1.4175961	1.4430150	1.4693514	1.4983531
9	1.3497061	1.3716385	1.3944398	1.4179966	1.4434400	1.4697122	1.4988397
10	1.3501583	1.3721085	1.3949166	1.4183974	1.4438650	1.4700736	1.4993267
11	1.3506105	1.3725785	1.3953944	1.4188344	1.4442900	1.4704354	1.4998141
12	1.3510627	1.3730485	1.3958732	1.4192714	1.4447150	1.4707978	1.5003020
13	1.3515149	1.3735185	1.3963530	1.4197084	1.4451400	1.4711602	1.5007903
14	1.3519671	1.3739885	1.3968338	1.4201454	1.4455650	1.4715226	1.5012791
15	1.3524193	1.3744585	1.3973156	1.4205824	1.4459900	1.4718850	1.5017683
16	1.3528715	1.3749285	1.3977974	1.4210194	1.4464150	1.4722474	1.5022580
17	1.3533237	1.3753985	1.3982792	1.4214564	1.4468400	1.4726098	1.5027481
18	1.3537759	1.3758685	1.3987610	1.4218934	1.4472650	1.4729722	1.5032387
19	1.3542281	1.3763385	1.3992428	1.4223304	1.4476900	1.4733346	1.5037297
20	1.3546803	1.3768085	1.3997246	1.4227674	1.4481150	1.4736970	1.5042211
21	1.3551325	1.3772785	1.4002064	1.4232044	1.4485400	1.4740594	1.5047130
22	1.3555847	1.3777485	1.4006882	1.4236414	1.4489650	1.4744218	1.5052054
23	1.3560369	1.3782185	1.4011700	1.4240784	1.4493900	1.4747842	1.5056982
24	1.3564891	1.3786885	1.4016518	1.4245154	1.4498150	1.4751466	1.5061915
25	1.3569413	1.3791585	1.4021336	1.4249524	1.4502400	1.4755090	1.5066852
26	1.3573935	1.3796285	1.4026154	1.4253894	1.4506650	1.4758714	1.5071798
27	1.3578457	1.3800985	1.4030972	1.4258264	1.4510900	1.4762338	1.5076749
28	1.3582979	1.3805685	1.4035790	1.4262634	1.4515150	1.4765962	1.5081690
29	1.3587501	1.3810385	1.4040608	1.4266964	1.4519400	1.4769586	1.5086645
30	1.3592023	1.3815085	1.4045426	1.4271334	1.4523650	1.4773210	1.5091605
31	1.3596545	1.3819785	1.4050244	1.4275704	1.4527900	1.4776834	1.5096560
32	1.3601067	1.3824485	1.4055062	1.4280074	1.4532150	1.4780458	1.5101538
33	1.3605589	1.3829185	1.4059880	1.4284444	1.4536400	1.4784082	1.5106511
34	1.3610111	1.3833885	1.4064698	1.4288814	1.4540650	1.4787706	1.5111489
35	1.3614633	1.3838585	1.4069516	1.4293184	1.4544900	1.4791330	1.5116473
36	1.3619155	1.3843285	1.4074334	1.4297554	1.4549150	1.4794954	1.5121459
37	1.3623677	1.3847985	1.4079152	1.4301924	1.4553400	1.4798578	1.5126450
38	1.3628199	1.3852685	1.4083970	1.4306294	1.4557650	1.4802202	1.5131446
39	1.3632721	1.3857385	1.4088788	1.4310664	1.4561900	1.4805826	1.5136447
40	1.3637243	1.3862085	1.4093606	1.4315034	1.4566150	1.4809450	1.5141452
41	1.3641765	1.3866785	1.4098424	1.4319404	1.4570400	1.4813074	1.5146462
42	1.3646287	1.3871485	1.4103242	1.4323774	1.4574650	1.4816698	1.5151477
43	1.3650809	1.3876185	1.4108060	1.4328144	1.4578900	1.4820322	1.5156496
44	1.3655331	1.3880885	1.4112878	1.4332514	1.4583150	1.4823946	1.5161520
45	1.3659853	1.3885585	1.4117696	1.4336884	1.4587400	1.4827570	1.5166544
46	1.3664375	1.3890285	1.4122514	1.4341254	1.4591650	1.4831194	1.5171568
47	1.3668897	1.3894985	1.4127332	1.4345624	1.4595900	1.4834818	1.5176592
48	1.3673419	1.3899685	1.4132150	1.4350000	1.4600150	1.4838442	1.5181616
49	1.3677941	1.3904385	1.4136968	1.4354370	1.4604400	1.4842066	1.5186640
50	1.3682463	1.3909085	1.4141786	1.4358740	1.4608650	1.4845690	1.5191664
51	1.3686985	1.3913785	1.4146604	1.4363110	1.4612900	1.4849314	1.5196688
52	1.3691507	1.3918485	1.4151422	1.4367480	1.4617150	1.4852938	1.5201712
53	1.3696029	1.3923185	1.4156240	1.4371850	1.4621400	1.4856562	1.5206736
54	1.3700551	1.3927885	1.4161058	1.4376220	1.4625650	1.4860186	1.5211760
55	1.3705073	1.3932585	1.4165876	1.4380590	1.4629900	1.4863810	1.5216784
56	1.3709595	1.3937285	1.4170694	1.4384960	1.4634150	1.4867434	1.5221808
57	1.3714117	1.3941985	1.4175512	1.4389330	1.4638400	1.4871058	1.5226832
58	1.3718639	1.3946685	1.4180330	1.4393700	1.4642650	1.4874682	1.5231856
59	1.3723161	1.3951385	1.4185148	1.4398070	1.4646900	1.4878306	1.5236880
60	1.3727683	1.3956085	1.4189966	1.4402440	1.4651150	1.4881930	1.5241904

	49°	50°	51°	52°	53°	54°	55°	
0	1.1003084	1.1217538	1.1348972	1.14799416	1.16270448	1.1763819	1.1881480	60
1	1.1510445	1.1624570	1.1735639	1.18437094	1.1948483	1.2050222	1.2150826	59
2	1.1517310	1.1631435	1.1742504	1.1850574	1.1955348	1.2057087	1.2157691	58
3	1.1523979	1.1638104	1.1749173	1.1857243	1.1962017	1.2063756	1.2164360	57
4	1.1530754	1.1644879	1.1755948	1.1864018	1.1968792	1.2070531	1.2171135	56
5	1.1537529	1.1651654	1.1762723	1.1870793	1.1975567	1.2077306	1.2177910	55
6	1.1544304	1.1658429	1.1769498	1.1877568	1.1982342	1.2084081	1.2184685	54
7	1.1551079	1.1665204	1.1776273	1.1884343	1.1989117	1.2090856	1.2191460	53
8	1.1557854	1.1671979	1.1783048	1.1891118	1.1995892	1.2097631	1.2198235	52
9	1.1564629	1.1678754	1.1789823	1.1897893	1.2002667	1.2104406	1.2205010	51
10	1.1571404	1.1685529	1.1796598	1.1904668	1.2009492	1.2111231	1.2211835	50
11	1.1578179	1.1692304	1.1803373	1.1911443	1.2018317	1.2119956	1.2220439	49
12	1.1584954	1.1699079	1.1810148	1.1918218	1.2027092	1.2128731	1.2229043	48
13	1.1591729	1.1705854	1.1816923	1.1924993	1.2035867	1.2137510	1.2237647	47
14	1.1598504	1.1712629	1.1823698	1.1931768	1.2044642	1.2146289	1.2246251	46
15	1.1605279	1.1719404	1.1830473	1.1938833	1.2053416	1.2155068	1.2254855	45
16	1.1612054	1.1726179	1.1837248	1.1945603	1.2062190	1.2163847	1.2263459	44
17	1.1618829	1.1732954	1.1843023	1.1950373	1.2070964	1.2172626	1.2272063	43
18	1.1625604	1.1739729	1.1849798	1.1957143	1.2079738	1.2181405	1.2280667	42
19	1.1632379	1.1746504	1.1856573	1.1963913	1.2088512	1.2190184	1.2289271	41
20	1.1639154	1.1753279	1.1863348	1.1970683	1.2097286	1.2198963	1.2297875	40
21	1.1645929	1.1760054	1.1870123	1.1977453	1.2106060	1.2207742	1.2306479	39
22	1.1652704	1.1766829	1.1876898	1.1984223	1.2115034	1.2216516	1.2315083	38
23	1.1659479	1.1773604	1.1883673	1.1990993	1.2124008	1.2225290	1.2323687	37
24	1.1666254	1.1780379	1.1890548	1.1997763	1.2132982	1.2234064	1.2332291	36
25	1.1673029	1.1787154	1.1897323	1.2004533	1.2141956	1.2242838	1.2340895	35
26	1.1679804	1.1793929	1.1904098	1.2011303	1.2150930	1.2251612	1.2349500	34
27	1.1686579	1.1800704	1.1910873	1.2018073	1.2159904	1.2260386	1.2358104	33
28	1.1693354	1.1807479	1.1917648	1.2024843	1.2168878	1.2269160	1.2366708	32
29	1.1700129	1.1814254	1.1924423	1.2031613	1.2177852	1.2277934	1.2375312	31
30	1.1706904	1.1821029	1.1931198	1.2038383	1.2186826	1.2286708	1.2383916	30
31	1.1713679	1.1827804	1.1937973	1.2045153	1.2195800	1.2295482	1.2392520	29
32	1.1720454	1.1834579	1.1944748	1.2051923	1.2204774	1.2304256	1.2401124	28
33	1.1727229	1.1841354	1.1951523	1.2058693	1.2213748	1.2313030	1.2409728	27
34	1.1733954	1.1848129	1.1958298	1.2065463	1.2222722	1.2321804	1.2418332	26
35	1.1740729	1.1854904	1.1965073	1.2072233	1.2231696	1.2330578	1.2426936	25
36	1.1747504	1.1861679	1.1971848	1.2079003	1.2240670	1.2339352	1.2435540	24
37	1.1754279	1.1868454	1.1978623	1.2085773	1.2249644	1.2348126	1.2444144	23
38	1.1761054	1.1875229	1.1985398	1.2092543	1.2258618	1.2356900	1.2452748	22
39	1.1767829	1.1882004	1.1992173	1.2099313	1.2267592	1.2365674	1.2461352	21
40	1.1774604	1.1888779	1.1998948	1.2106083	1.2276566	1.2374448	1.2469956	20
41	1.1781379	1.1895554	1.2005723	1.2112853	1.2285540	1.2383222	1.2478560	19
42	1.1788154	1.1902329	1.2012498	1.2119623	1.2294514	1.2392000	1.2487164	18
43	1.1794929	1.1909104	1.2019273	1.2126393	1.2303488	1.2400774	1.2495768	17
44	1.1801704	1.1915879	1.2026048	1.2133163	1.2312462	1.2409548	1.2504372	16
45	1.1808479	1.1922654	1.2032823	1.2139933	1.2321436	1.2418322	1.2512976	15
46	1.1815254	1.1929429	1.2039598	1.2146703	1.2330410	1.2427096	1.2521580	14
47	1.1822029	1.1936204	1.2046373	1.2153473	1.2339384	1.2435870	1.2530184	13
48	1.1828804	1.1942979	1.2053148	1.2160243	1.2348358	1.2444644	1.2538788	12
49	1.1835579	1.1949754	1.2059923	1.2167013	1.2357332	1.2453418	1.2547392	11
50	1.1842354	1.1956529	1.2066698	1.2173783	1.2366306	1.2462192	1.2556000	10
51	1.1849129	1.1963304	1.2073473	1.2180553	1.2375280	1.2470966	1.2564604	9
52	1.1855904	1.1970079	1.2080248	1.2187323	1.2384254	1.2479740	1.2573208	8
53	1.1862679	1.1976854	1.2087023	1.2194093	1.2393228	1.2488514	1.2581812	7
54	1.1869454	1.1983629	1.2093798	1.2200863	1.2402202	1.2497288	1.2590416	6
55	1.1876229	1.1990404	1.2100573	1.2207633	1.2411176	1.2506062	1.2599020	5
56	1.1883004	1.1997179	1.2107348	1.2214403	1.2420150	1.2514836	1.2607624	4
57	1.1889779	1.2003954	1.2114123	1.2221173	1.2429124	1.2523610	1.2616228	3
58	1.1896554	1.2010729	1.2120898	1.2227943	1.2438098	1.2532384	1.2624832	2
59	1.1903329	1.2017504	1.2127673	1.2234713	1.2447072	1.2541158	1.2633436	1
60	1.1910104	1.2024279	1.2134448	1.2241483	1.2456046	1.2550000	1.2642040	0
	49°	50°	51°	52°	53°	54°	55°	

	49°	50°	51°	52°	53°	54°	55°	
0	1.5242531	1.5557238	1.5890187	1.6243092	1.6618401	1.7013016	1.7434468	60
1	1.5247034	1.5562634	1.5895688	1.6248763	1.6623819	1.7018931	1.7441715	60
2	1.5251741	1.5568035	1.5901584	1.6254799	1.6629943	1.7025053	1.7448690	58
3	1.5256784	1.5573441	1.5907306	1.6260981	1.6636073	1.7031383	1.7455920	57
4	1.5262071	1.5578859	1.5913038	1.6267329	1.6642310	1.7037818	1.7463409	56
5	1.5267603	1.5584288	1.5918780	1.6273803	1.6648553	1.7044360	1.7470776	55
6	1.5273210	1.5589839	1.5924504	1.6279963	1.6655009	1.7051010	1.7478000	54
7	1.5278951	1.5595415	1.5930267	1.6285969	1.6661488	1.7057867	1.7485352	53
8	1.5284877	1.5600946	1.5935990	1.6291981	1.6667990	1.7064779	1.7492851	52
9	1.5290927	1.5606582	1.5941751	1.6297959	1.6674389	1.7071661	1.7499956	51
10	1.5297173	1.5612324	1.5947511	1.6303862	1.6680864	1.7078478	1.7507273	50
11	1.5303623	1.5618181	1.5953276	1.6309572	1.6687345	1.7085245	1.7514593	49
12	1.5310278	1.5624122	1.5959048	1.6315288	1.6693833	1.7092054	1.7521924	48
13	1.5316938	1.5629779	1.5964824	1.6321009	1.6700398	1.7102152	1.7529262	47
14	1.5323703	1.5635541	1.5970606	1.6326737	1.6706998	1.7109058	1.7536807	46
15	1.5330572	1.5641387	1.5976394	1.6332470	1.6713336	1.7115970	1.7544359	45
16	1.5337546	1.5647181	1.5982187	1.6338210	1.6719850	1.7122890	1.7551820	44
17	1.5344625	1.5653038	1.5987986	1.6343956	1.6726370	1.7129817	1.7559287	43
18	1.5351808	1.5658951	1.5993790	1.6349707	1.6732897	1.7136750	1.7566763	42
19	1.5359097	1.5664902	1.5999600	1.6355464	1.6739430	1.7143691	1.7574246	41
20	1.5366491	1.5670812	1.6005416	1.6361228	1.6745970	1.7150639	1.7581837	40
21	1.5373989	1.5676671	1.6011237	1.6367007	1.6752517	1.7157594	1.7589336	39
22	1.5381592	1.5682532	1.6017064	1.6372773	1.6759070	1.7164556	1.7596843	38
23	1.5389300	1.5688451	1.6022896	1.6378535	1.6765629	1.7171521	1.7604367	37
24	1.5397113	1.5694374	1.6028734	1.6384292	1.6772195	1.7178491	1.7611908	36
25	1.5405030	1.5700304	1.6034577	1.6389956	1.6778768	1.7185464	1.7619468	35
26	1.5413052	1.5706251	1.6040426	1.6395626	1.6785347	1.7192445	1.7627045	34
27	1.5421179	1.5712212	1.6046281	1.6401301	1.6791933	1.7199432	1.7634631	33
28	1.5429412	1.5718252	1.6052142	1.6407081	1.6798525	1.7206427	1.7642234	32
29	1.5437751	1.5724309	1.6058008	1.6412867	1.6805124	1.7213439	1.7649854	31
30	1.5446196	1.5730387	1.6063879	1.6418659	1.6811730	1.7220458	1.7657489	30
31	1.5454747	1.5736487	1.6069757	1.6424456	1.6818342	1.7227484	1.7665139	29
32	1.5463404	1.5742603	1.6075640	1.6430263	1.6824961	1.7234518	1.7672803	28
33	1.5472167	1.5748736	1.6081528	1.6436081	1.6831596	1.7241560	1.7680482	27
34	1.5481036	1.5754870	1.6087423	1.6441911	1.6838249	1.7248617	1.7688185	26
35	1.5489911	1.5761014	1.6093323	1.6447754	1.6844918	1.7255677	1.7695903	25
36	1.5498892	1.5767178	1.6099228	1.6453610	1.6851597	1.7262744	1.7703645	24
37	1.5507979	1.5773352	1.6105140	1.6459479	1.6858285	1.7269824	1.7711411	23
38	1.5517172	1.5779537	1.6111075	1.6465351	1.6864981	1.7276911	1.7719202	22
39	1.5526471	1.5785732	1.6116960	1.6471228	1.6871684	1.7284005	1.7727017	21
40	1.5535876	1.5791937	1.6122890	1.6477110	1.6878394	1.7291106	1.7734846	20
41	1.5545387	1.5798152	1.6128823	1.6483000	1.6885110	1.7298214	1.7742690	19
42	1.5554904	1.5804377	1.6134763	1.6488896	1.6891830	1.7305321	1.7750549	18
43	1.5564526	1.5810612	1.6140728	1.6494800	1.6898555	1.7312434	1.7758420	17
44	1.5574253	1.5816857	1.6146650	1.6500713	1.6905284	1.7319553	1.7766315	16
45	1.5584086	1.5823112	1.6152587	1.6506636	1.6911918	1.7326678	1.7774234	15
46	1.5594025	1.5829377	1.6158530	1.6512569	1.6918556	1.7333808	1.7782177	14
47	1.5604069	1.5835652	1.6164480	1.6518512	1.6925199	1.7340941	1.7790144	13
48	1.5614218	1.5841937	1.6170434	1.6524465	1.6931846	1.7348078	1.7798135	12
49	1.5624472	1.5848232	1.6176394	1.6530428	1.6938498	1.7355228	1.7806150	11
50	1.5634831	1.5854537	1.6182350	1.6536391	1.6945154	1.7362381	1.7814189	10
51	1.5645295	1.5860852	1.6188302	1.6542354	1.6951814	1.7369538	1.7822250	9
52	1.5655864	1.5867177	1.6194250	1.6548317	1.6958478	1.7376704	1.7830334	8
53	1.5666538	1.5873512	1.6200204	1.6554280	1.6965146	1.7383874	1.7838441	7
54	1.5677317	1.5879857	1.6206163	1.6560243	1.6971818	1.7391048	1.7846570	6
55	1.5688201	1.5886212	1.6212128	1.6566206	1.6978494	1.7398226	1.7854721	5
56	1.5699190	1.5892577	1.6218090	1.6572169	1.6985174	1.7405408	1.7862894	4
57	1.5710284	1.5898952	1.6224053	1.6578132	1.6991858	1.7412598	1.7871089	3
58	1.5721483	1.5905337	1.6230016	1.6584095	1.6998546	1.7419791	1.7879306	2
59	1.5732787	1.5911722	1.6235979	1.6590058	1.7005238	1.7426988	1.7887545	1
60	1.5744196	1.5918107	1.6241942	1.6596021	1.7011934	1.7434181	1.7895805	0
	40°	50°	51°	52°	53°	54°	55°	

	56°	57°	58°	59°	60°	61°	62°	
0	1.4838610	1.5398650	1.6008345	1.6612795	1.7230008	1.8040478	1.8807365	60
1	1.4838416	1.5408460	1.6018709	1.6623766	1.7232149	1.8052800	1.8820470	59
2	1.4844381	1.5418380	1.6024403	1.6634748	1.7243893	1.8065206	1.8833600	58
3	1.4853354	1.5428108	1.6034465	1.6647071	1.7255468	1.8077664	1.8846924	57
4	1.4865284	1.5437646	1.6044806	1.6660744	1.7267444	1.8090086	1.8860172	56
5	1.4879223	1.5447192	1.6055260	1.6674796	1.7279833	1.8102521	1.8873436	55
6	1.4891170	1.5456647	1.6065672	1.6688782	1.7292033	1.8114969	1.8886713	54
7	1.4900935	1.5467110	1.6076094	1.6702618	1.7402345	1.8127430	1.8899805	53
8	1.4900988	1.5477383	1.6086325	1.6718064	1.7413869	1.8139904	1.8913318	52
9	1.4900959	1.5487264	1.6096966	1.6734192	1.7425705	1.8152591	1.8926635	51
10	1.4919020	1.5497153	1.6107417	1.6750398	1.7437453	1.8164892	1.8939971	50
11	1.4928436	1.5507054	1.6117878	1.6766407	1.7449213	1.8177405	1.8953322	49
12	1.4937722	1.5516963	1.6128349	1.6777157	1.7460964	1.8189932	1.8966688	48
13	1.4947725	1.5526880	1.6138829	1.6788354	1.7472768	1.8202473	1.8980068	47
14	1.4957657	1.5536806	1.6149320	1.6797977	1.7484561	1.8215026	1.8993464	46
15	1.4966056	1.5546741	1.6159820	1.6808400	1.7496371	1.8227593	1.9006874	45
16	1.4975480	1.5556685	1.6170330	1.6819621	1.7508191	1.8240173	1.9020290	44
17	1.4984923	1.5566639	1.6180850	1.6830765	1.7520023	1.8252767	1.9033738	43
18	1.4994367	1.5576601	1.6191380	1.6841919	1.7531866	1.8265371	1.9047193	42
19	1.5003821	1.5586572	1.6201920	1.6853085	1.7543722	1.8277992	1.9060663	41
20	1.5013289	1.5596552	1.6212469	1.6864261	1.7555590	1.8290628	1.9074147	40
21	1.5022761	1.5606542	1.6223029	1.6875449	1.7567470	1.8303275	1.9087670	39
22	1.5032239	1.5616540	1.6233599	1.6886647	1.7579362	1.8315936	1.9101162	38
23	1.5041710	1.5626548	1.6244178	1.6897856	1.7591267	1.8328610	1.9114691	37
24	1.5051181	1.5636564	1.6254768	1.6909077	1.7603183	1.8341297	1.9128236	36
25	1.5060671	1.5646590	1.6265368	1.6920308	1.7615112	1.8353999	1.9141795	35
26	1.5070194	1.5656625	1.6275977	1.6931550	1.7627053	1.8366707	1.9155370	34
27	1.5079743	1.5666669	1.6286597	1.6942804	1.7639007	1.8379442	1.9168960	33
28	1.5089371	1.5676722	1.6297227	1.6954060	1.7650972	1.8392184	1.9182565	32
29	1.5098907	1.5686784	1.6307867	1.6965344	1.7662950	1.8404940	1.9196186	31
30	1.5108452	1.5696856	1.6318517	1.6976651	1.7674940	1.8417709	1.9209821	30
31	1.5118005	1.5706936	1.6329177	1.6987929	1.7686943	1.8430492	1.9223472	29
32	1.5127466	1.5717036	1.6339847	1.6999238	1.7698958	1.8443299	1.9237138	28
33	1.5137036	1.5727126	1.6350528	1.7010539	1.7710985	1.8456099	1.9250819	27
34	1.5146614	1.5737234	1.6361218	1.7021890	1.7723024	1.8468922	1.9264516	26
35	1.5156201	1.5747352	1.6371919	1.7033233	1.7735076	1.8481761	1.9278238	25
36	1.5165796	1.5757479	1.6382630	1.7044587	1.7747141	1.8494613	1.9291956	24
37	1.5175400	1.5767615	1.6393351	1.7055958	1.7759218	1.8507479	1.9305699	23
38	1.5185013	1.5777760	1.6404082	1.7067329	1.7771307	1.8520338	1.9319487	22
39	1.5194632	1.5787915	1.6414834	1.7078717	1.7783409	1.8533232	1.9333331	21
40	1.5204261	1.5798070	1.6425576	1.7090116	1.7795524	1.8546130	1.9347090	20
41	1.5213899	1.5808233	1.6436338	1.7101537	1.7807651	1.8559080	1.9360825	19
42	1.5223545	1.5818436	1.6447111	1.7112949	1.7819790	1.8572015	1.9374645	18
43	1.5233200	1.5828638	1.6457893	1.7124382	1.7831943	1.8584963	1.9388481	17
44	1.5242863	1.5838830	1.6468687	1.7135837	1.7844107	1.8597928	1.9402333	16
45	1.5252535	1.5849041	1.6479490	1.7147283	1.7856285	1.8610905	1.9416300	15
46	1.5262215	1.5859261	1.6490304	1.7158751	1.7868475	1.8623896	1.9430263	14
47	1.5271904	1.5869491	1.6501138	1.7170230	1.7880678	1.8636902	1.9444301	13
48	1.5281602	1.5879731	1.6511968	1.7181720	1.7892893	1.8649921	1.9458396	12
49	1.5291306	1.5889979	1.6522808	1.7193222	1.7905131	1.8662955	1.9472436	11
50	1.5301023	1.5900238	1.6533663	1.7204736	1.7917369	1.8676003	1.9486572	10
51	1.5310740	1.5910505	1.6544539	1.7216261	1.7929616	1.8689065	1.9499723	9
52	1.5320467	1.5920783	1.6555405	1.7227797	1.7941883	1.8702141	1.9512871	8
53	1.5330210	1.5931070	1.6566292	1.7239348	1.7954162	1.8715231	1.9526004	7
54	1.5339960	1.5941366	1.6577190	1.7250905	1.7966454	1.8728336	1.9539173	6
55	1.5349727	1.5951672	1.6588097	1.7262477	1.7978759	1.8741453	1.9552379	5
56	1.5359504	1.5961987	1.6599018	1.7274060	1.7991077	1.8754588	1.9565580	4
57	1.5369270	1.5972312	1.6609943	1.7285654	1.8003409	1.8767737	1.9578807	3
58	1.5379054	1.5982647	1.6620884	1.7297250	1.8015753	1.8780898	1.9592010	2
59	1.5388848	1.5992991	1.6631834	1.7308878	1.8028106	1.8794074	1.9605200	1
60	1.5398650	1.6003345	1.6642795	1.7320536	1.8040478	1.8807365	1.9618365	0
	32°	33°	34°	35°	36°	37°	38°	

	56°	57°	58°	59°	60°	61°	62°	
0	1.7883916	1.8360785	1.8870799	1.9416040	2.0000000	2.0626633	2.1300645	60
1	1.7890633	1.8369013	1.8879599	1.9425445	2.0010063	2.0637484	2.1312586	59
2	1.7896337	1.8377231	1.8889398	1.9434861	2.0020177	2.0648338	2.1323980	58
3	1.7902000	1.8385498	1.8897197	1.9444288	2.0030363	2.0659186	2.1335070	57
4	1.7907681	1.8393753	1.8904616	1.9453732	2.0040602	2.0670030	2.1346734	56
5	1.7913380	1.8402018	1.8911484	1.9463178	2.0050893	2.0680869	2.1358093	55
6	1.7919337	1.8410292	1.8918364	1.9472633	2.0061234	2.0691706	2.1370730	54
7	1.7925310	1.8418574	1.8925252	1.9482093	2.0071623	2.0702540	2.1383475	53
8	1.7931306	1.8426863	1.8932149	1.9491563	2.0082064	2.0713370	2.1396288	52
9	1.7937323	1.8435160	1.8939059	1.9501075	2.0092552	2.0724200	2.1409151	51
10	1.7943360	1.8443466	1.8945973	1.9510677	2.0103092	2.0735035	2.1421708	50
11	1.7949417	1.8451793	1.8952890	1.9520308	2.0113681	2.0745871	2.1434915	49
12	1.7955494	1.8460123	1.8959824	1.9529961	2.0124319	2.0756706	2.1447488	48
13	1.7961590	1.8468460	1.8966763	1.9539635	2.0134994	2.0767546	2.1460375	47
14	1.7967705	1.8476806	1.8973706	1.9549324	2.0145706	2.0778390	2.1473517	46
15	1.7973839	1.8485161	1.9000357	1.9559024	2.0156444	2.0789239	2.1486915	45
16	1.7979992	1.8493526	1.9016111	1.9568742	2.0167216	2.0800093	2.1499875	44
17	1.7986164	1.8501898	1.9031864	1.9578482	2.0178021	2.0810950	2.1513073	43
18	1.7992355	1.8510281	1.9047617	1.9588242	2.0188859	2.0821807	2.1526510	42
19	1.7998565	1.8518672	1.9063369	1.9598016	2.0199729	2.0832664	2.1540191	41
20	1.8004794	1.8527073	1.9079121	1.9607806	2.0210630	2.0843521	2.1554015	40
21	1.8011041	1.8535483	1.9094872	1.9617612	2.0221561	2.0854378	2.1568080	39
22	1.8017306	1.8543903	1.9110623	1.9627434	2.0232521	2.0865235	2.1582383	38
23	1.8023589	1.8552331	1.9126374	1.9637271	2.0243500	2.0876092	2.1596930	37
24	1.8029890	1.8560769	1.9142125	1.9647121	2.0254499	2.0886949	2.1611721	36
25	1.8036209	1.8569216	1.9157876	1.9656981	2.0265517	2.0897806	2.1626754	35
26	1.8042546	1.8577672	1.9173627	1.9666851	2.0276544	2.0908663	2.1642029	34
27	1.8048901	1.8586128	1.9189378	1.9676731	2.0287580	2.0919519	2.1657546	33
28	1.8055274	1.8594591	1.9205129	1.9686621	2.0298625	2.0930376	2.1673303	32
29	1.8061665	1.8603057	1.9220880	1.9696521	2.0309679	2.0941233	2.1689300	31
30	1.8068074	1.8611530	1.9236631	1.9706431	2.0320742	2.0952089	2.1705547	30
31	1.8074501	1.8620003	1.9252382	1.9716351	2.0331814	2.0962946	2.1722044	29
32	1.8080946	1.8628476	1.9268133	1.9726281	2.0342896	2.0973803	2.1738791	28
33	1.8087409	1.8636949	1.9283884	1.9736221	2.0353977	2.0984659	2.1755788	27
34	1.8093890	1.8645422	1.9299635	1.9746171	2.0365058	2.0995516	2.1773035	26
35	1.8100389	1.8653895	1.9315386	1.9756131	2.0376139	2.1006373	2.1790532	25
36	1.8106906	1.8662368	1.9331137	1.9766091	2.0387219	2.1017230	2.1808279	24
37	1.8113441	1.8670841	1.9346888	1.9776051	2.0398299	2.1028087	2.1826276	23
38	1.8119994	1.8679314	1.9362639	1.9786011	2.0409379	2.1038944	2.1844523	22
39	1.8126565	1.8687787	1.9378390	1.9795971	2.0420459	2.1049801	2.1863020	21
40	1.8133154	1.8696260	1.9394141	1.9805931	2.0431539	2.1060658	2.1881767	20
41	1.8139761	1.8704733	1.9409892	1.9815891	2.0442619	2.1071515	2.1900764	19
42	1.8146386	1.8713206	1.9425643	1.9825851	2.0453699	2.1082372	2.1920011	18
43	1.8153029	1.8721679	1.9441394	1.9835811	2.0464779	2.1093229	2.1939508	17
44	1.8159690	1.8730152	1.9457145	1.9845771	2.0475859	2.1104086	2.1959255	16
45	1.8166369	1.8738625	1.9472896	1.9855731	2.0486939	2.1114943	2.1979252	15
46	1.8173066	1.8747098	1.9488647	1.9865691	2.0498019	2.1125800	2.1999499	14
47	1.8179781	1.8755571	1.9504398	1.9875651	2.0509099	2.1136657	2.2020006	13
48	1.8186514	1.8764044	1.9520149	1.9885611	2.0520179	2.1147514	2.2040753	12
49	1.8193265	1.8772517	1.9535900	1.9895571	2.0531259	2.1158371	2.2061750	11
50	1.8199994	1.8780990	1.9551651	1.9905531	2.0542339	2.1169228	2.2083007	10
51	1.8206745	1.8789463	1.9567402	1.9915491	2.0553419	2.1180085	2.2104504	9
52	1.8213514	1.8797936	1.9583153	1.9925451	2.0564499	2.1190942	2.2126251	8
53	1.8220303	1.8806409	1.9598904	1.9935411	2.0575579	2.1201799	2.2148248	7
54	1.8227112	1.8814882	1.9614655	1.9945371	2.0586659	2.1212656	2.2170495	6
55	1.8233941	1.8823355	1.9630406	1.9955331	2.0597739	2.1223513	2.2193002	5
56	1.8240790	1.8831828	1.9646157	1.9965291	2.0608819	2.1234370	2.2215749	4
57	1.8247659	1.8840301	1.9661908	1.9975251	2.0619899	2.1245227	2.2238746	3
58	1.8254548	1.8848774	1.9677659	1.9985211	2.0630979	2.1256084	2.2262003	2
59	1.8261457	1.8857247	1.9693410	1.9995171	2.0642059	2.1266941	2.2285510	1
60	1.8268386	1.8865720	1.9709161	2.0005131	2.0653139	2.1277798	2.2309267	0
	28°	29°	30°	31°	32°	33°	34°	

	63°	64°	65°	66°	67°	68°	69°	
0	1.9020765	2.0463038	2.1445069	2.2400368	2.3558324	2.4750689	2.6050801	60
1	1.9040237	2.0518185	2.1461866	2.2477962	2.3577390	2.4771612	2.6073558	59
2	1.9054364	2.0533349	2.1477083	2.2495580	2.3596983	2.4792386	2.6096259	58
3	1.9068518	2.0548531	2.1492021	2.2513221	2.3615801	2.4813190	2.6118995	57
4	1.9082688	2.0563732	2.1516878	2.2530865	2.3634946	2.4834023	2.6141768	56
5	1.9096874	2.0578950	2.1541757	2.2548572	2.3654118	2.4854887	2.6164571	55
6	1.9711077	2.0594187	2.1543156	2.2566228	2.3673316	2.4875781	2.6187411	54
7	1.9725296	2.0609442	2.1568975	2.2584016	2.3692549	2.4896706	2.6210286	53
8	1.9739512	2.0624716	2.1570015	2.2601773	2.3711791	2.4917680	2.6233190	52
9	1.9753782	2.0640006	2.1592476	2.2619554	2.3731068	2.4938645	2.6256141	51
10	1.9768050	2.0655318	2.1608958	2.2637357	2.3750372	2.4959681	2.6279121	50
11	1.9782324	2.0670646	2.1625460	2.2655184	2.3769703	2.4980707	2.6302136	49
12	1.9796635	2.0685994	2.1641883	2.2673035	2.3789060	2.5001784	2.6325186	48
13	1.9810952	2.0701352	2.1658327	2.2690906	2.3808444	2.5022891	2.6348271	47
14	1.9825266	2.0716743	2.1675091	2.2708807	2.3827855	2.5044029	2.6371393	46
15	1.9839536	2.0732146	2.1691677	2.2726729	2.3847293	2.5065198	2.6394549	45
16	1.9853803	2.0747567	2.1708283	2.2744674	2.3866758	2.5086398	2.6417741	44
17	1.9868087	2.0763007	2.1724911	2.2762643	2.3886250	2.5107629	2.6440969	43
18	1.9882377	2.0778465	2.1741559	2.2780636	2.3905769	2.5128890	2.6464232	42
19	1.9896674	2.0793942	2.1758229	2.2798653	2.3925316	2.5150183	2.6487531	41
20	1.9910977	2.0809438	2.1774920	2.2816693	2.3944880	2.5171507	2.6510867	40
21	1.9925286	2.0824953	2.1791631	2.2834758	2.3964490	2.5192863	2.6534238	39
22	1.9939594	2.0840487	2.1808364	2.2852846	2.3984118	2.5214249	2.6557645	38
23	1.9953902	2.0856039	2.1825119	2.2870959	2.4003774	2.5235667	2.6581089	37
24	1.9968213	2.0871610	2.1841894	2.2889096	2.4023457	2.5257117	2.6604509	36
25	1.9982526	2.0887200	2.1858691	2.2907257	2.4043168	2.5278598	2.6628085	35
26	1.9996839	2.0902809	2.1875510	2.2925449	2.4062906	2.5300111	2.6651638	34
27	2.0011142	2.0918437	2.1892349	2.2943651	2.4082672	2.5321655	2.6675227	33
28	2.0025445	2.0934085	2.1909210	2.2961885	2.4102465	2.5343231	2.6698853	32
29	2.0039748	2.0949751	2.1926093	2.2980143	2.4122286	2.5364839	2.6722516	31
30	2.0054051	2.0965436	2.1942997	2.2998425	2.4142136	2.5386479	2.6746210	30
31	2.0068354	2.0981140	2.1959928	2.3016732	2.4162013	2.5408151	2.6769951	29
32	2.0082657	2.0996864	2.1976871	2.3035064	2.4181918	2.5429855	2.6793725	28
33	2.0096960	2.1012607	2.1993840	2.3053430	2.4201851	2.5451591	2.6817535	27
34	2.0111263	2.1028369	2.2010831	2.3071801	2.4221812	2.5473339	2.6841383	26
35	2.0125566	2.1044150	2.2027843	2.3089798	2.4241801	2.5495100	2.6865267	25
36	2.0139869	2.1059951	2.2044878	2.3107837	2.4261819	2.5516892	2.6889190	24
37	2.0154172	2.1075771	2.2061934	2.3125792	2.4281864	2.5538765	2.6913149	23
38	2.0168475	2.1091601	2.2079012	2.3143571	2.4301928	2.5560656	2.6937147	22
39	2.0182778	2.1107470	2.2096112	2.3161476	2.4322041	2.5582566	2.6961181	21
40	2.0197081	2.1123348	2.2113234	2.3179406	2.4342173	2.5604499	2.6985254	20
41	2.0211384	2.1139246	2.2130379	2.3197410	2.4362331	2.5626465	2.7009364	19
42	2.0225687	2.1155164	2.2147545	2.3215470	2.4382519	2.5648464	2.7033513	18
43	2.0239990	2.1171101	2.2164738	2.3233645	2.4402736	2.5670495	2.7057699	17
44	2.0254293	2.1187057	2.2181944	2.3251844	2.4422982	2.5692560	2.7081923	16
45	2.0268596	2.1203034	2.2199177	2.3270063	2.4443256	2.5714657	2.7106186	15
46	2.0282899	2.1219030	2.2216433	2.3288311	2.4463559	2.5736718	2.7130487	14
47	2.0297202	2.1235046	2.2233709	2.3311807	2.4483891	2.5758813	2.7154828	13
48	2.0311505	2.1251083	2.2251009	2.3331748	2.4504352	2.5780939	2.7179204	12
49	2.0325808	2.1267137	2.2268331	2.3351906	2.4524842	2.5803090	2.7203620	11
50	2.0340111	2.1283213	2.2285676	2.3369287	2.4545361	2.5825264	2.7228076	10
51	2.0354414	2.1299308	2.2303043	2.3386695	2.4565910	2.5847491	2.7252569	9
52	2.0368717	2.1315423	2.2320433	2.3404128	2.4586487	2.5869782	2.7277102	8
53	2.0383020	2.1331550	2.2337845	2.3421587	2.4606994	2.5892177	2.7301674	7
54	2.0397323	2.1347714	2.2355280	2.3439067	2.4627530	2.5914606	2.7326284	6
55	2.0411626	2.1363899	2.2372738	2.3456563	2.4648096	2.5937068	2.7350934	5
56	2.0425929	2.1380085	2.2390218	2.3474119	2.4668691	2.5959564	2.7375623	4
57	2.0440232	2.1396301	2.2407721	2.3491681	2.4689316	2.5982093	2.7400352	3
58	2.0454535	2.1412537	2.2425247	2.3509269	2.4709970	2.6004658	2.7425121	2
59	2.0468838	2.1428793	2.2442796	2.3526883	2.4730556	2.6027253	2.7449927	1
60	2.0483141	2.1445069	2.2460368	2.3544524	2.4750689	2.6049891	2.7474774	0
	63°	64°	65°	66°	67°	68°	69°	

	53°	54°	55°	56°	57°	58°	59°	
0	2-2038493	2-2811720	2-2662016	2-4565028	2-5593047	2-6694672	2-7904261	60
1	2-2039476	2-2825325	2-2676787	2-4603008	2-5610599	2-6713906	2-7925444	59
2	2-2050075	2-2839967	2-2691578	2-4641816	2-5638176	2-6748371	2-7946641	58
3	2-2064691	2-2852618	2-2706390	2-4681227	2-5665781	2-6782465	2-7967873	57
4	2-2077323	2-2866286	2-2721223	2-4720537	2-5693412	2-6771790	2-7989140	56
5	2-2089972	2-2879974	2-2736075	2-4760038	2-5681669	2-6791145	2-8010441	55
6	2-2102637	2-2893679	2-2750940	2-4802729	2-5669702	2-6819530	2-8031777	54
7	2-2115318	2-2907403	2-2765843	2-4845943	2-5710483	2-6829445	2-8053148	53
8	2-2128016	2-2921145	2-2780758	2-47715181	2-5734199	2-6849291	2-8074554	52
9	2-2140730	2-2934900	2-2795684	2-4731442	2-5751963	2-6868867	2-8095905	51
10	2-2153460	2-2948683	2-2810650	2-4747736	2-5769752	2-6888374	2-8117471	50
11	2-2166208	2-2962483	2-2825637	2-4764054	2-5787570	2-6907912	2-8138982	49
12	2-2178971	2-2976299	2-2840625	2-4780388	2-5805414	2-6927480	2-8160529	48
13	2-2191752	2-2990134	2-2855615	2-4796721	2-5823284	2-6947079	2-8182111	47
14	2-2204548	2-3003988	2-2870625	2-4813103	2-5841183	2-6966670	2-8203729	46
15	2-2217362	2-3017860	2-2885746	2-4829505	2-5859107	2-6986370	2-8225382	45
16	2-2230192	2-3031751	2-2900829	2-4845929	2-5877058	2-7006061	2-8247071	44
17	2-2243039	2-3045680	2-2915931	2-4862380	2-5895037	2-7025784	2-8268796	43
18	2-2255903	2-3059598	2-2931055	2-4878854	2-5913043	2-7045538	2-8290556	42
19	2-2268783	2-3073536	2-2946201	2-4895352	2-5931077	2-7065323	2-8312353	41
20	2-2281681	2-3087501	2-2961367	2-4911874	2-5949137	2-7085139	2-8334185	40
21	2-2294595	2-3101486	2-2976535	2-4928421	2-5967225	2-7104967	2-8356054	39
22	2-2307526	2-3115490	2-2991761	2-4944991	2-5985341	2-7124806	2-8377958	38
23	2-2320474	2-3129513	2-3006995	2-4961586	2-6003484	2-7144677	2-8399899	37
24	2-2333438	2-3143554	2-3022247	2-4978204	2-6021654	2-7164519	2-8421877	36
25	2-2346420	2-3157615	2-3037520	2-4994848	2-6039852	2-7184373	2-8443891	35
26	2-2359419	2-3171695	2-3052815	2-5011515	2-6058078	2-7204298	2-8465941	34
27	2-2372435	2-3185794	2-3068122	2-5028207	2-6076332	2-7224273	2-8488028	33
28	2-2385468	2-3199912	2-3083469	2-5044923	2-6094613	2-7244298	2-8510162	32
29	2-2398517	2-3214049	2-3098829	2-5061603	2-6112922	2-7264305	2-8532312	31
30	2-2411585	2-3228205	2-3114210	2-5078248	2-6131250	2-7284308	2-8554510	30
31	2-2424669	2-3242381	2-3129613	2-5094924	2-6149624	2-7304303	2-8576744	29
32	2-2437770	2-3256567	2-3145038	2-5112032	2-6168016	2-7324300	2-8599015	28
33	2-2450889	2-3270790	2-3160484	2-5129877	2-6186439	2-7344300	2-8621384	27
34	2-2464025	2-3285023	2-3175952	2-5147375	2-6204888	2-7364303	2-8643870	26
35	2-2477178	2-3299276	2-3191442	2-5164934	2-6223366	2-7384301	2-8666383	25
36	2-2490348	2-3313548	2-3206984	2-5179537	2-6241873	2-7404301	2-8688974	24
37	2-2503536	2-3327840	2-3223488	2-5196475	2-6260400	2-7424301	2-8711632	23
38	2-2516741	2-3342152	2-3239944	2-5213438	2-6278969	2-7444303	2-8734328	22
39	2-2529964	2-3356482	2-3256322	2-5230426	2-6297560	2-7464307	2-8757061	21
40	2-2543204	2-3370833	2-3272722	2-5247440	2-6316180	2-7484314	2-8779832	20
41	2-2556461	2-3385203	2-3289144	2-5264478	2-6334828	2-7504324	2-8801142	19
42	2-2569736	2-3399593	2-3305489	2-5281541	2-6353506	2-7524337	2-8822789	18
43	2-2583029	2-3414002	2-3321855	2-5298630	2-6372211	2-7544352	2-8844674	17
44	2-2596339	2-3428432	2-3338144	2-5315744	2-6390946	2-7564361	2-8866196	16
45	2-2609667	2-3442881	2-3354455	2-5332888	2-6409710	2-7584373	2-8887900	15
46	2-2623012	2-3457349	2-3370789	2-5350044	2-6428502	2-7611578	2-8914760	14
47	2-2636376	2-3471838	2-3387045	2-5367238	2-6447323	2-7638387	2-8941768	13
48	2-2649758	2-3486347	2-3403322	2-5384452	2-6466174	2-7665208	2-8968975	12
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50	2-2676571	2-3515424	2-3435948	2-5418961	2-6503963	2-7718893	2-9023986	10
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52	2-2703437	2-3544581	2-3468663	2-5453571	2-6541848	2-7772621	2-9079497	8
53	2-2716897	2-3559189	2-3485054	2-5470915	2-6560865	2-7799500	2-9107302	7
54	2-2730315	2-3573818	2-3499968	2-5488224	2-6579901	2-7826392	2-9135107	6
55	2-2743732	2-3588467	2-3515303	2-5505580	2-6598947	2-7853293	2-9162912	5
56	2-2757148	2-3603136	2-3530715	2-5522961	2-6618003	2-7880204	2-9190717	4
57	2-2770567	2-3617826	2-3546048	2-5540368	2-6637069	2-7907124	2-9218522	3
58	2-2784006	2-3632535	2-3561482	2-5557800	2-6656143	2-7934053	2-9246327	2
59	2-2797461	2-3647264	2-3576937	2-5575257	2-6675224	2-7961000	2-9274132	1
60	2-2811720	2-3662016	2-3592412	2-5592739	2-6694312	2-7987961	2-9301937	0
	53°	54°	55°	56°	57°	58°	59°	

	70°	71°	72°	73°	74°	75°	76°	
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1	2-7489981	2-9069576	2-9807325	2-2742568	2-4912470	2-7363980	2-0157570	59
2	2-7504588	2-9097089	2-9835860	2-2776715	2-4950874	2-7403546	2-0207446	58
3	2-7519554	2-9124694	2-9864688	2-2810907	2-4989356	2-7451207	2-0257440	57
4	2-7534554	2-9152355	2-9893812	2-2845164	2-5027916	2-7494963	2-0307550	56
5	2-7549608	2-9179909	2-9923031	2-2879467	2-5066555	2-7538815	2-0357779	55
6	2-7564695	2-9207610	2-9952096	2-2913876	2-5105278	2-7582763	2-0408125	54
7	2-7579822	2-9235356	2-9981416	2-2948330	2-5144079	2-7626807	2-0458590	53
8	2-7594990	2-9263153	2-1009291	2-2982851	2-5182946	2-7670947	2-0509174	52
9	2-7610199	2-9290995	2-1038323	2-3017488	2-5221902	2-7715185	2-0559877	51
10	2-7725448	2-9318885	2-1064210	2-3052091	2-5260938	2-7759519	2-0610700	50
11	2-7750738	2-9346832	2-1115264	2-3086811	2-5299054	2-7803951	2-0661643	49
12	2-7776069	2-9374807	2-1146853	2-3121598	2-5338351	2-7848481	2-0713707	48
13	2-7801440	2-9402840	2-1177890	2-3156453	2-5378338	2-7893109	2-0765893	47
14	2-7826853	2-9430931	2-1208723	2-3191473	2-5417886	2-7937835	2-0818109	46
15	2-7852307	2-9459050	2-1239661	2-3226363	2-5457825	2-7982661	2-0869627	45
16	2-7877793	2-9487227	2-1271817	2-3261419	2-5498484	2-8027585	2-0921878	44
17	2-7903319	2-9515453	2-1302701	2-3296543	2-5538649	2-8072609	2-0973893	43
18	2-7928837	2-9543727	2-1334141	2-3331786	2-5579133	2-8117733	2-1026169	42
19	2-7954357	2-9572050	2-1365630	2-3366997	2-5619500	2-8162957	2-1078569	41
20	2-7980198	2-9600422	2-1397194	2-3402325	2-5659749	2-8208281	2-1132514	40
21	2-8005901	2-9628842	2-1428807	2-3437794	2-5699508	2-8253707	2-1187784	39
22	2-8031646	2-9657313	2-1460478	2-3473191	2-5739596	2-8299233	2-1239079	38
23	2-8057440	2-9685861	2-1492207	2-3508738	2-5779794	2-8344861	2-1288293	37
24	2-8083263	2-9714399	2-1523994	2-3544333	2-5819573	2-8390501	2-1335046	36
25	2-8109134	2-9743016	2-1555840	2-3580008	2-5859241	2-8436124	2-1387719	35
26	2-8135048	2-9771683	2-1587744	2-3615763	2-5899590	2-8482538	2-1440519	34
27	2-8161004	2-9800400	2-1619706	2-3651598	2-5939704	2-8528896	2-1493446	33
28	2-8187003	2-9829167	2-1651738	2-3687453	2-5979743	2-8574537	2-1546501	32
29	2-8213046	2-9857983	2-1683808	2-3723408	2-6019814	2-8620782	2-1599685	31
30	2-8239134	2-9886850	2-1715948	2-3759434	2-6059835	2-8667131	2-1652998	30
31	2-8265256	2-9915768	2-1748147	2-3795531	2-6099969	2-8713594	2-1706440	29
32	2-8291426	2-9944734	2-1780406	2-3831690	2-6140489	2-8760142	2-1760011	28
33	2-8317639	2-9973751	2-1812724	2-3867928	2-6181415	2-8806805	2-1813718	27
34	2-8343896	2-0002820	2-1845102	2-3904249	2-6222447	2-8853574	2-1867546	26
35	2-8370196	2-0031939	2-1877540	2-3940631	2-6259566	2-8900448	2-1921510	25
36	2-8396539	2-0061109	2-1910039	2-3977085	2-6301771	2-8947429	2-1975800	24
37	2-8422926	2-0090330	2-1942598	2-4013613	2-6346064	2-8994516	2-2029883	23
38	2-8449356	2-0119603	2-1975217	2-4050210	2-6387444	2-9041710	2-2084190	22
39	2-8475831	2-0148926	2-2007897	2-4086882	2-6428911	2-9089011	2-2138890	21
40	2-8502349	2-0178301	2-2040638	2-4123636	2-6470467	2-9136540	2-2193818	20
41	2-8528911	2-0207728	2-2073440	2-4160448	2-6512111	2-9184387	2-2249080	19
42	2-8555517	2-0237207	2-2106304	2-4197333	2-6553844	2-9231563	2-2304977	18
43	2-8582168	2-0266737	2-2139228	2-4234297	2-6595665	2-9279297	2-2359609	17
44	2-8608868	2-0296330	2-2172215	2-4271334	2-6637575	2-9327141	2-2413177	16
45	2-8635602	2-0325954	2-2205263	2-4308446	2-6679375	2-9375094	2-2466482	15
46	2-8662386	2-0355641	2-2238378	2-4345631	2-6721065	2-9423157	2-2519293	14
47	2-8689215	2-0385381	2-2271546	2-4382891	2-6762845	2-9471331	2-2572561	13
48	2-8716088	2-0415173	2-2304790	2-4420296	2-6804615	2-9519615	2-2625218	12
49	2-8743007	2-0445018	2-2338078	2-4457835	2-6846475	2-9568011	2-2678102	11
50	2-8770079	2-0474915	2-2371438	2-4495510	2-6889277	2-9616518	2-2731096	10
51	2-8797297	2-0504866	2-2404890	2-4533379	2-6932169	2-9665137	2-2784209	9
52	2-8824633	2-0534870	2-2438346	2-4571315	2-6975104	2-9713868	2-2836473	8
53	2-8852112	2-0564928	2-2471895	2-4609025	2-7018230	2-9763712	2-2888985	7
54	2-8879737	2-0595038	2-2505598	2-4646812	2-7061648	2-9811800	2-2941646	6
55	2-8907467	2-0625203	2-2539184	2-4684676	2-7104598	2-9860739	2-2994136	5
56	2-8935297	2-0655431	2-2572924	2-4722616	2-7147661	2-9909926	2-3046874	4
57	2-8963228	2-0685694	2-2606728	2-4760632	2-7190658	2-9959323	2-3100079	3
58	2-8991216	2-0716020	2-2640596	2-4798776	2-7233847	2-9998685	2-3152807	2
59	2-9019268	2-0746490	2-2674529	2-4836896	2-7277181	2-0038165	2-3205747	1
60	2-9047310	2-0777025	2-2708535	2-4874144	2-7320308	2-0077809	2-3258750	0
	19°	18°	17°	16°	15°	14°	13°	

	70°	71°	72°	73°	74°	75°	76°	
0	2.9238044	2.9715385	2.2360690	2.4308096	2.6379553	2.8637082	4.1235668	60
1	2.9261431	2.9741597	2.2389678	2.4336611	2.6316895	2.8679925	4.1268999	59
2	2.9284858	2.9767025	2.2418732	2.4365251	2.6353816	2.8731119	4.1302339	58
3	2.9308326	2.9792386	2.2447644	2.4393956	2.6390816	2.8782323	4.1335686	57
4	2.9331833	2.9818170	2.2477003	2.4423727	2.6427899	2.8833570	4.1369041	56
5	2.9355380	2.9843860	2.2506232	2.4453563	2.6464543	2.8884794	4.1402345	55
6	2.9378968	2.9869306	2.2535496	2.4483460	2.6501783	2.8936041	4.1435714	54
7	2.9402597	2.9894619	2.2564835	2.4513433	2.6538997	2.8987276	4.1469042	53
8	2.9426265	2.9919820	2.2594211	2.4543467	2.6576481	2.9038497	4.1502320	52
9	2.9449975	2.9945067	2.2623652	2.4573568	2.6613964	2.9089705	4.1535648	51
10	2.9473723	2.9970353	2.2653169	2.4603735	2.6651518	2.9140900	4.1568933	50
11	2.9497516	2.1003905	2.2682702	2.4633969	2.6689151	2.9192083	4.1602189	49
12	2.9521348	2.1036206	2.2712311	2.4664269	2.6726865	2.9243254	4.1635416	48
13	2.9545221	2.1068285	2.2741977	2.4694637	2.6764600	2.9294411	4.1668614	47
14	2.9569125	2.1093442	2.2771700	2.4725072	2.6802356	2.9345551	4.1701783	46
15	2.9593060	2.1116057	2.2801479	2.4755576	2.6840193	2.9396676	4.1734914	45
16	2.9617037	2.1136740	2.2831316	2.4786146	2.6878053	2.9447785	4.1768008	44
17	2.9641135	2.1153472	2.2861209	2.4816785	2.6915935	2.9498878	4.1801066	43
18	2.9665265	2.1169252	2.2891160	2.4847492	2.6953845	2.9549954	4.1834088	42
19	2.9689427	2.1181761	2.2921168	2.4878267	2.6991780	2.9601013	4.1867074	41
20	2.9713619	2.1193959	2.2951234	2.4909110	2.7029736	2.9652054	4.1900025	40
21	2.9737849	2.1205886	2.2981357	2.4940023	2.7067716	2.9703077	4.1932941	39
22	2.9762114	2.1217612	2.3011529	2.4971004	2.7105719	2.9754081	4.1965822	38
23	2.9786421	2.1229187	2.3041758	2.4999955	2.7143745	2.9805066	4.2000000	37
24	2.9810763	2.1239992	2.3072046	2.5028976	2.7181795	2.9856031	4.2034074	36
25	2.9835136	2.1249906	2.3102432	2.5058063	2.7219869	2.9906976	4.2068054	35
26	2.9859539	2.1259929	2.3132847	2.5087216	2.7257967	2.9957901	4.2101939	34
27	2.9883961	2.1269963	2.3163280	2.5116434	2.7296089	3.0008806	4.2135729	33
28	2.9908402	2.1279997	2.3193725	2.5145716	2.7334234	3.0059691	4.2169524	32
29	2.9932862	2.1289999	2.3224182	2.5175062	2.7372402	3.0110556	4.2203224	31
30	2.9957341	2.1299969	2.3254650	2.5204473	2.7410693	3.0161401	4.2236929	30
31	2.9981839	2.1309906	2.3285128	2.5233948	2.7449007	3.0212226	4.2270639	29
32	3.0006356	2.1319801	2.3315627	2.5263486	2.7487344	3.0263031	4.2304354	28
33	3.0030892	2.1329656	2.3346136	2.5293087	2.7525704	3.0313816	4.2338074	27
34	3.0055447	2.1339471	2.3376655	2.5322751	2.7564087	3.0364581	4.2371799	26
35	3.0080021	2.1349246	2.3407284	2.5352478	2.7602493	3.0415326	4.2405529	25
36	3.0104614	2.1358981	2.3437923	2.5382267	2.7640921	3.0466051	4.2439264	24
37	3.0129225	2.1368676	2.3468572	2.5412117	2.7679371	3.0516756	4.2472994	23
38	3.0153854	2.1378331	2.3499231	2.5442028	2.7717842	3.0567441	4.2506729	22
39	3.0178501	2.1387946	2.3529900	2.5471999	2.7756333	3.0618106	4.2540469	21
40	3.0203166	2.1397521	2.3560579	2.5502030	2.7794844	3.0668751	4.2574214	20
41	3.0227849	2.1407056	2.3591268	2.5532121	2.7833375	3.0719376	4.2607964	19
42	3.0252540	2.1416551	2.3621967	2.5562272	2.7871926	3.0769981	4.2641719	18
43	3.0277239	2.1426006	2.3652676	2.5592483	2.7910497	3.0820566	4.2675479	17
44	3.0301946	2.1435421	2.3683395	2.5622754	2.7949088	3.0871131	4.2709244	16
45	3.0326661	2.1444796	2.3714124	2.5653085	2.7987699	3.0921676	4.2743014	15
46	3.0351384	2.1454131	2.3744863	2.5683476	2.8026330	3.0972201	4.2776789	14
47	3.0376115	2.1463426	2.3775612	2.5713927	2.8064981	3.1022716	4.2810564	13
48	3.0400854	2.1472681	2.3806371	2.5744438	2.8103652	3.1073211	4.2844339	12
49	3.0425601	2.1481896	2.3837140	2.5775009	2.8142343	3.1123686	4.2878114	11
50	3.0450356	2.1491071	2.3867919	2.5805640	2.8181054	3.1174141	4.2911889	10
51	3.0475119	2.1500206	2.3898708	2.5836331	2.8219785	3.1224576	4.2945664	9
52	3.0500000	2.1509301	2.3929507	2.5867082	2.8258536	3.1275001	4.2979439	8
53	3.0524889	2.1518356	2.3960316	2.5897893	2.8297307	3.1325416	4.3013214	7
54	3.0549788	2.1527371	2.3991135	2.5928764	2.8336098	3.1375821	4.3046989	6
55	3.0574697	2.1536346	2.4021964	2.5959695	2.8374909	3.1426216	4.3080764	5
56	3.0600000	2.1545271	2.4052803	2.5990686	2.8413740	3.1476601	4.3114539	4
57	3.0625309	2.1554156	2.4083652	2.6021737	2.8452591	3.1526976	4.3148314	3
58	3.0650628	2.1563001	2.4114511	2.6052848	2.8491462	3.1577341	4.3182089	2
59	3.0675947	2.1571806	2.4145380	2.6083919	2.8530353	3.1627696	4.3215864	1
60	3.0701266	2.1580571	2.4176259	2.6114950	2.8569264	3.1678041	4.3249639	0
	19°	18°	17°	16°	15°	14°	13°	

	77°	78°	79°	80°	81°	82°	83°	
0	4.3314759	4.7046301	5.1445540	5.6712818	6.3187515	7.1153897	8.1448464	90
1	4.3372310	4.7113696	5.1525557	5.6809446	6.3256601	7.1201190	8.1493798	89
2	4.3430018	4.7181256	5.1606813	5.6906394	6.3327020	7.1253308	8.1537041	88
3	4.3487806	4.7249012	5.1689311	5.7003663	6.3400092	7.1307056	8.1582939	87
4	4.3545681	4.7316954	5.1774051	5.7101256	6.3461650	7.1374937	8.1628484	86
5	4.3603603	4.7385083	5.1860885	5.7199173	6.3523786	7.142466	8.1674485	85
6	4.3661593	4.7453401	5.1949264	5.7297416	6.3585865	7.1466116	8.1720547	84
7	4.3719731	4.7521907	5.2039178	5.7395988	6.3648042	7.1520422	8.1763759	83
8	4.3777917	4.7590603	5.2092459	5.7494889	6.3710363	7.1575378	8.1804086	82
9	4.3836054	4.7659490	5.2174428	5.7594182	6.3772801	7.1630087	8.1844577	81
10	4.3894240	4.7728568	5.2250647	5.7693888	6.3835428	7.1685725	8.1885038	80
11	4.3952477	4.7797837	5.2329116	5.7793968	6.3898197	7.1741484	8.1925536	79
12	4.4010754	4.7867300	5.2411830	5.7894385	6.3961070	7.1800170	8.1966051	78
13	4.4069071	4.7936957	5.2504909	5.7994460	6.4024051	7.1859047	8.2006585	77
14	4.4127428	4.8006808	5.2598035	5.8094811	6.4087138	7.1918189	8.2047131	76
15	4.4185824	4.8076854	5.2691217	5.8195521	6.4150331	7.1977490	8.2087788	75
16	4.4244259	4.8147096	5.2784555	5.8296581	6.4213628	7.2036941	8.2128456	74
17	4.4302732	4.8217536	5.2878051	5.8397901	6.4277029	7.2096542	8.2169135	73
18	4.4361243	4.8288174	5.2971653	5.8499481	6.4340534	7.2156293	8.2209824	72
19	4.4419792	4.8359010	5.3065361	5.8601321	6.4404144	7.2216194	8.2250524	71
20	4.4478379	4.8430045	5.3159273	5.8703421	6.4467854	7.2276245	8.2291234	70
21	4.4536994	4.8501282	5.3253385	5.8805781	6.4531664	7.2336446	8.2331954	69
22	4.4595639	4.8572719	5.3347697	5.8908401	6.4595574	7.2396797	8.2372684	68
23	4.4654314	4.8644359	5.3442209	5.9011281	6.4659584	7.2457298	8.2413424	67
24	4.4713029	4.8716199	5.3536921	5.9114421	6.4723694	7.2517949	8.2454174	66
25	4.4771774	4.8788248	5.3631833	5.9217831	6.4787904	7.2578750	8.2494934	65
26	4.4830549	4.8860499	5.3726945	5.9321441	6.4852214	7.2639691	8.2535704	64
27	4.4889354	4.8932956	5.3822757	5.9426251	6.4916624	7.2700772	8.2576484	63
28	4.4948189	4.9005609	5.3918769	5.9531361	6.4981134	7.2761993	8.2617274	62
29	4.5007054	4.9078461	5.4014981	5.9636671	6.5045744	7.2823354	8.2658084	61
30	4.5065949	4.9151570	5.4111393	5.9742181	6.5110454	7.2884855	8.2698904	60
31	4.5124874	4.9224923	5.4208005	5.9847891	6.5175264	7.2946496	8.2739734	59
32	4.5183829	4.9298536	5.4304817	5.9953701	6.5240174	7.3008277	8.2780584	58
33	4.5242814	4.9372399	5.4401829	6.0059711	6.5305184	7.3070198	8.2821444	57
34	4.5301829	4.9446510	5.4509041	6.0165921	6.5370294	7.3132259	8.2862314	56
35	4.5360864	4.9520863	5.4616453	6.0272331	6.5435404	7.3194460	8.2903194	55
36	4.5419919	4.9595474	5.4724065	6.0378941	6.5500614	7.3256791	8.2944084	54
37	4.5478994	4.9670336	5.4831877	6.0485751	6.5565924	7.3319252	8.2984984	53
38	4.5538089	4.9745447	5.4939889	6.0592761	6.5631334	7.3381943	8.3025894	52
39	4.5597204	4.9820799	5.5048101	6.0699971	6.5696844	7.3444774	8.3066814	51
40	4.5656339	4.9896390	5.5156513	6.0807381	6.5762454	7.3507745	8.3107744	50
41	4.5715494	4.9972221	5.5265125	6.0914991	6.5828164	7.3570856	8.3148684	49
42	4.5774669	5.0048292	5.5373937	6.1022801	6.5893974	7.3634007	8.3189634	48
43	4.5833864	5.0124603	5.5482949	6.1130811	6.5959884	7.3697298	8.3230594	47
44	4.5893079	5.0201154	5.5592161	6.1238921	6.6025994	7.3760729	8.3271564	46
45	4.5952304	5.0277945	5.5701573	6.1347131	6.6092204	7.3824290	8.3312544	45
46	4.6011549	5.0354976	5.5811185	6.1455541	6.6158614	7.3887991	8.3353524	44
47	4.6070814	5.0432247	5.5920997	6.1564151	6.6225124	7.3951842	8.3394514	43
48	4.6130099	5.0509758	5.6030909	6.1672961	6.6291734	7.4015843	8.3435514	42
49	4.6189394	5.0587409	5.6140921	6.1781971	6.6358444	7.4080094	8.3476524	41
50	4.6248709	5.0665190	5.6251133	6.1891181	6.6425254	7.4144495	8.3517544	40
51	4.6308034	5.0743101	5.6361545	6.2000591	6.6492164	7.4209046	8.3558574	39
52	4.6367369	5.0821142	5.6472157	6.2110201	6.6559174	7.4273747	8.3599614	38
53	4.6426714	5.0899323	5.6582969	6.2220011	6.6626284	7.4338598	8.3640664	37
54	4.6486069	5.0977644	5.6693981	6.2330021	6.6693494	7.4403599	8.3681724	36
55	4.6545434	5.1056195	5.6805193	6.2440231	6.6760704	7.4468750	8.3722794	35
56	4.6604809	5.1134976	5.6916605	6.2550641	6.6828014	7.4534051	8.3763864	34
57	4.6664194	5.1213987	5.7028217	6.2661251	6.6895424	7.4599502	8.3804944	33
58	4.6723599	5.1293228	5.7139929	6.2772061	6.6962934	7.4665103	8.3846034	32
59	4.6783014	5.1372699	5.7251841	6.2883071	6.7030544	7.4730854	8.3887134	31
60	4.6842439	5.1452390	5.7363953	6.2994281	6.7098254	7.4796755	8.3928244	30
61	4.6901874	5.1532301	5.7476265	6.3105691	6.7166064	7.4862806	8.3969364	29
62	4.6961319	5.1612432	5.7588777	6.3217301	6.7234074	7.4928997	8.4010494	28
63	4.7020774	5.1692783	5.7701489	6.3329111	6.7302284	7.4995328	8.4051634	27
64	4.7080239	5.1773354	5.7814401	6.3441221	6.7370594	7.5061809	8.4092784	26
65	4.7139704	5.1854145	5.7927513	6.3553531	6.7439004	7.5128430	8.4133944	25
66	4.7199179	5.1935156	5.8040825	6.3666041	6.7507614	7.5195091	8.4175114	24
67	4.7258654	5.2016387	5.8154337	6.3778751	6.7576324	7.5261892	8.4216294	23
68	4.7318129	5.2097838	5.8268049	6.3891661	6.7645134	7.5328823	8.4257484	22
69	4.7377604	5.2179509	5.8381961	6.4004771	6.7714144	7.5395894	8.4298684	21
70	4.7437079	5.2261390	5.8496073	6.4118081	6.7783254	7.5463095	8.4339894	20
71	4.7496554	5.2343491	5.8610385	6.4231591	6.7852464	7.5530426	8.4381114	19
72	4.7556029	5.2425802	5.8724897	6.4345301	6.7921774	7.5597887	8.4422344	18
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76	4.7793929	5.2757246	5.9184945	6.4802141	6.8200414	7.5868941	8.4587364	14
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79	4.7972354	5.3008139	5.9532081	6.5146871	6.8410444	7.6073544	8.4711234	11
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82	4.8150779	5.3260952	5.9881017	6.5493401	6.8621374	7.6279427	8.4835194	8
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87	4.8448154	5.3686607	6.0466637	6.6079151	6.8976924	7.6625022	8.5042004	3
88	4.8507629	5.3772398	6.0584369	6.6198161	6.9048334	7.6694463	8.5083404	2
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	77°	78°	79°	80°	81°	82°	83°	
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2	4 4566339	4 8179357	5 2568708	5 7778350	6 4160216	7 2151653	8 2445746	02
3	4 4622483	4 8225343	5 2644798	5 7874153	6 4279719	7 2201940	8 2643485	03
4	4 4678634	4 8281114	5 2724070	5 7970380	6 4397083	7 2248850	8 2840171	04
5	4 4734783	4 8336877	5 2803367	5 8066732	6 4517059	7 2294417	8 2938819	05
6	4 4790910	4 8392621	5 2883347	5 8163510	6 4638001	7 2339816	8 3035415	06
7	4 4847073	4 8448365	5 2963334	5 8260517	6 4757193	7 2389400	8 3130986	07
8	4 4903289	4 8504108	5 3043308	5 8358253	6 4877944	7 2439254	8 3226534	08
9	4 4959432	4 8559849	5 3123109	5 8456820	6 4999143	7 2489108	8 3322065	09
10	4 5015565	4 8615490	5 3202800	5 8555221	6 5119013	7 2537909	8 3417596	10
11	4 5071698	4 8671237	5 3282501	5 8653256	6 5242338	7 2587777	8 3513105	11
12	4 5127834	4 8726980	5 3362214	5 8751128	6 5365528	7 2638312	8 3608692	12
13	4 5183971	4 8782723	5 3441930	5 8849038	6 5488588	7 2689318	8 3704258	13
14	4 5239908	4 8838465	5 3521647	5 8946968	6 5611713	7 2740708	8 3800000	14
15	4 5295845	4 8894208	5 3601363	5 9044919	6 5735113	7 2792460	8 3895904	15
16	4 5351782	4 8949951	5 3681080	5 9142864	6 5858687	7 2844483	8 3991986	16
17	4 5407719	4 9005694	5 3760797	5 9240809	6 5982549	7 2896825	8 4088254	17
18	4 5463656	4 9061437	5 3840514	5 9338754	6 6106678	7 2949487	8 4184708	18
19	4 5519593	4 9117180	5 3920231	5 9436699	6 6231003	7 3002460	8 4281350	19
20	4 5575530	4 9172923	5 4000000	5 9534644	6 6355528	7 3055742	8 4378092	20
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22	4 5687404	4 9284409	5 4159434	5 9730534	6 6605178	7 3163208	8 4571876	22
23	4 5743341	4 9340152	5 4239151	5 9828479	6 6730303	7 3217391	8 4668918	23
24	4 5799278	4 9395895	5 4318868	5 9926424	6 6855628	7 3271874	8 4766060	24
25	4 5855215	4 9451638	5 4398585	6 0024369	6 6981153	7 3326657	8 4863302	25
26	4 5911152	4 9507381	5 4478302	6 0122314	6 7106878	7 3381740	8 4960644	26
27	4 5967089	4 9563124	5 4558019	6 0220259	6 7232803	7 3437123	8 5058086	27
28	4 6023026	4 9618867	5 4637736	6 0318204	6 7358928	7 3492806	8 5155628	28
29	4 6078963	4 9674610	5 4717453	6 0416149	6 7485253	7 3548789	8 5253270	29
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33	4 6302711	4 9897582	5 5036321	6 0807955	6 7992553	7 3775421	8 5644838	33
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35	4 6414585	5 0009068	5 5195755	6 1003865	6 8247003	7 3890087	8 5841222	35
36	4 6470522	5 0064811	5 5275472	6 1101810	6 8371528	7 3947870	8 5939564	36
37	4 6526459	5 0120554	5 5355189	6 1199755	6 8496253	7 4006053	8 6037906	37
38	4 6582396	5 0176297	5 5434906	6 1297700	6 8621078	7 4064636	8 6136348	38
39	4 6638333	5 0232040	5 5514623	6 1395645	6 8746003	7 4123419	8 6234790	39
40	4 6694270	5 0287783	5 5594340	6 1493590	6 8871028	7 4182402	8 6333332	40
41	4 6750207	5 0343526	5 5674057	6 1591535	6 8996153	7 4241585	8 6431974	41
42	4 6806144	5 0399269	5 5753774	6 1689480	6 9121378	7 4300968	8 6530716	42
43	4 6862081	5 0455012	5 5833491	6 1787425	6 9246503	7 4360551	8 6629458	43
44	4 6918018	5 0510755	5 5913208	6 1885370	6 9371728	7 4420334	8 6728200	44
45	4 6973955	5 0566498	5 5992925	6 1983315	6 9497053	7 4480317	8 6827042	45
46	4 7029892	5 0622241	5 6072642	6 2081260	6 9622478	7 4540500	8 6925984	46
47	4 7085829	5 0677984	5 6152359	6 2179205	6 9747903	7 4600883	8 7025026	47
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53	4 7421451	5 1012442	5 6630661	6 2766875	7 0501953	7 4967381	8 7626278	53
54	4 7477388	5 1068185	5 6710378	6 2864820	7 0627878	7 5029164	8 7726520	54
55	4 7533325	5 1123928	5 6790095	6 2962765	7 0753803	7 5091147	8 7826762	55
56	4 7589262	5 1179671	5 6869812	6 3060710	7 0879728	7 5153330	8 7927004	56
57	4 7645199	5 1235414	5 6949529	6 3158655	7 1005653	7 5215713	8 8027246	57
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59	4 7757073	5 1346900	5 7108963	6 3354545	7 1257503	7 5341079	8 8227730	59
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5	9-6493476	11-624781	14-608016	19-637296	29-882299	42-409184	55
6	9-6768060	11-684405	14-668520	19-740281	30-144619	43-636741	54
7	9-7044075	11-704500	14-731679	19-854581	30-411380	44-858008	53
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13	9-8733823	11-950370	15-133342	20-565115	32-118098	53-189911	47
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37	10-6131861	13-043799	16-915028	24-026330	41-410588	102-466063	23
38	10-6444092	13-090757	16-998057	24-195711	41-915790	104-239068	22
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6	0-7263237	11-767823	14-762576	19-765004	30-161902	63-064095	94
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24	10-247697	12-468995	15-925871	22-044402	35-814517	95-494711	112
25	10-278190	12-514240	15-999948	22-186529	36-191414	98-233082	113
26	10-308686	12-559815	16-074617	22-330499	36-576323	101-11182	114
27	10-339726	12-606724	16-149987	22-478353	36-969828	104-17674	115
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37	10-658854	13-084040	16-944530	24-067121	41-419070	147-40637	125
38	10-691859	13-133883	17-028346	24-246370	41-927717	152-26228	126
39	10-725070	13-184108	17-112906	24-428639	42-449245	157-70225	127
40	10-758488	13-234717	17-198484	24-613212	42-975712	162-96831	128
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45	10-928768	13-493721	17-639298	25-471337	45-846260	189-18325	133
46	10-963476	13-546728	17-729758	25-661394	46-469825	194-54492	134
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49	11-069240	13-708379	18-009739	26-246931	48-369411	209-22237	137
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51	11-142380	13-818291	18-196302	26-636455	49-462743	220-97209	139
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53	11-217270	13-929953	18-384742	27-024330	50-571002	232-22702	141
54	11-254230	13-986514	18-481599	27-221214	51-130927	238-56999	142
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58	11-403722	14-217384	18-894754	28-028468	53-406634	262-57828	146
59	11-441082	14-276300	18-994584	28-236067	53-984462	268-74508	147
60	11-478422	14-335567	19-107222	28-445796	54-566899	274-91914	148

For $\frac{1}{4}$ Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
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2	02-0	00-1	62	01-0	03-0	122	121-9	06-0	182	181-8	08-9	242	241-7	11-9
3	03-0	00-1	63	02-9	03-1	123	122-9	06-0	183	182-8	09-0	243	242-7	11-9
4	04-0	00-2	64	03-9	03-1	124	123-9	06-1	184	183-8	09-0	244	243-7	12-0
5	05-0	00-3	65	04-9	03-2	125	124-9	06-1	185	184-8	09-1	245	244-7	12-0
6	06-0	00-3	66	05-9	03-2	126	125-8	06-2	186	185-8	09-1	246	245-7	12-1
7	07-0	00-3	67	06-9	03-2	127	126-8	06-2	187	186-8	09-2	247	246-7	12-1
8	08-0	00-4	68	07-9	03-3	128	127-8	06-3	188	187-8	09-2	248	247-7	12-2
9	09-0	00-4	69	08-9	03-4	129	128-8	06-3	189	188-8	09-3	249	248-7	12-2
10	10-0	00-5	70	09-9	03-4	130	129-8	06-4	190	189-8	09-3	250	249-7	12-3
11	11-0	00-5	71	10-9	03-5	131	130-8	06-4	191	190-8	09-4	251	250-7	12-3
12	12-0	00-6	72	11-9	03-5	132	131-8	06-5	192	191-8	09-4	252	251-7	12-4
13	13-0	00-6	73	12-9	03-6	133	132-8	06-5	193	192-8	09-5	253	252-7	12-4
14	14-0	00-7	74	13-0	03-6	134	133-8	06-6	194	193-8	09-5	254	253-7	12-5
15	15-0	00-7	75	14-0	03-7	135	134-8	06-6	195	194-8	09-6	255	254-7	12-5
16	16-0	00-8	76	15-0	03-7	136	135-8	06-7	196	195-8	09-6	256	255-7	12-6
17	17-0	00-8	77	16-0	03-8	137	136-8	06-7	197	196-8	09-7	257	256-7	12-6
18	18-0	00-9	78	17-0	03-8	138	137-8	06-8	198	197-8	09-7	258	257-7	12-7
19	19-0	00-9	79	18-0	03-9	139	138-8	06-8	199	198-8	09-8	259	258-7	12-7
20	20-0	01-0	80	19-0	03-9	140	139-8	06-9	200	199-8	09-8	260	259-7	12-8
21	21-0	01-0	81	20-0	04-0	141	140-8	06-9	201	200-8	09-9	261	260-7	12-8
22	22-0	01-1	82	21-0	04-0	142	141-8	07-0	202	201-8	09-9	262	261-7	12-9
23	23-0	01-1	83	22-0	04-1	143	142-8	07-0	203	202-8	10-0	263	262-7	12-9
24	24-0	01-2	84	23-0	04-1	144	143-8	07-1	204	203-8	10-0	264	263-7	13-0
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26	26-0	01-3	86	25-0	04-2	146	145-8	07-2	206	205-8	10-1	266	265-7	13-1
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33	33-0	01-6	93	32-0	04-6	153	152-8	07-5	213	212-7	10-5	273	272-7	13-4
34	34-0	01-7	94	33-0	04-6	154	153-8	07-6	214	213-7	10-5	274	273-7	13-4
35	35-0	01-7	95	34-0	04-7	155	154-8	07-6	215	214-7	10-6	275	274-7	13-5
36	36-0	01-8	96	35-0	04-7	156	155-8	07-7	216	215-7	10-6	276	275-7	13-5
37	37-0	01-8	97	36-0	04-8	157	156-8	07-7	217	216-7	10-7	277	276-7	13-6
38	38-0	01-9	98	37-0	04-8	158	157-8	07-8	218	217-7	10-7	278	277-7	13-6
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42	42-0	02-1	102	41-0	02-0	162	161-8	08-0	222	221-7	10-9	282	281-7	13-8
43	43-0	02-1	103	42-0	02-1	163	162-8	08-0	223	222-7	10-9	283	282-7	13-9
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48	48-0	02-4	108	47-0	02-3	168	167-8	08-3	228	227-7	11-2	288	287-7	14-1
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51	51-0	02-5	111	50-0	02-5	171	170-8	08-4	231	230-7	11-3	291	290-7	14-3
52	52-0	02-6	112	51-0	02-5	172	171-8	08-4	232	231-7	11-4	292	291-7	14-3
53	53-0	02-6	113	52-0	02-6	173	172-8	08-5	233	232-7	11-4	293	292-7	14-4
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56	56-0	02-8	116	55-0	02-7	176	175-8	08-6	236	235-7	11-6	296	295-7	14-5
57	57-0	02-8	117	56-0	02-7	177	176-8	08-7	237	236-7	11-6	297	296-7	14-6
58	58-0	02-9	118	57-0	02-8	178	177-8	08-7	238	237-7	11-7	298	297-7	14-6
59	59-0	02-9	119	58-0	02-8	179	178-8	08-8	239	238-7	11-7	299	298-7	14-7
60	60-0	02-9	120	59-0	02-9	180	179-8	08-8	240	239-7	11-8	300	299-7	14-7

For $\frac{1}{2}$ Point.

For 1 Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	00-7	06-0	131	120-4	11-9	181	180-1	17-7	341	239-8	23-6
2	02-0	00-2	62	01-7	06-1	132	121-4	12-0	182	181-1	17-8	342	240-8	23-7
3	03-0	00-3	63	02-7	06-2	133	122-4	12-1	183	182-1	17-9	343	241-8	23-8
4	04-0	00-4	64	03-7	06-3	134	123-4	12-2	184	183-1	18-0	344	242-8	23-9
5	05-0	00-5	65	04-7	06-4	135	124-4	12-3	185	184-1	18-1	345	243-8	24-0
6	06-0	00-6	66	05-7	06-5	136	125-4	12-3	186	185-1	18-2	346	244-8	24-1
7	07-0	00-7	67	06-7	06-6	137	126-4	12-4	187	186-1	18-3	347	245-8	24-2
8	08-0	00-8	68	07-7	06-7	138	127-4	12-5	188	187-1	18-4	348	246-8	24-3
9	09-0	00-9	69	08-7	06-8	139	128-4	12-6	189	188-1	18-5	349	247-8	24-4
10	10-0	01-0	70	09-7	06-9	140	129-4	12-7	190	189-1	18-6	350	248-8	24-5
11	10-9	01-1	71	70-7	07-0	181	130-4	12-8	191	190-1	18-7	351	249-8	24-6
12	11-9	01-2	72	71-7	07-1	182	131-4	12-9	192	191-1	18-8	352	250-8	24-7
13	12-9	01-3	73	72-6	07-2	183	132-4	13-0	193	192-1	18-9	353	251-8	24-8
14	13-9	01-4	74	73-6	07-3	184	133-4	13-1	194	193-1	19-0	354	252-8	24-9
15	14-9	01-5	75	74-6	07-4	185	134-3	13-2	195	194-1	19-1	355	253-8	25-0
16	15-9	01-6	76	75-6	07-4	186	135-3	13-3	196	195-1	19-2	356	254-8	25-1
17	16-9	01-7	77	76-6	07-5	187	136-3	13-4	197	196-1	19-3	357	255-8	25-2
18	17-9	01-8	78	77-6	07-6	188	137-3	13-5	198	197-0	19-4	358	256-8	25-3
19	18-9	01-9	79	78-6	07-7	189	138-3	13-6	199	198-0	19-5	359	257-8	25-4
20	19-9	02-0	80	79-6	07-8	190	139-3	13-7	200	199-0	19-6	360	258-7	25-5
21	20-9	02-1	81	80-6	07-9	191	140-3	13-8	201	200-0	19-7	361	259-7	25-6
22	21-9	02-2	82	81-6	08-0	192	141-3	13-9	202	201-0	19-8	362	260-7	25-7
23	22-9	02-3	83	82-6	08-1	193	142-3	14-0	203	202-0	19-9	363	261-7	25-8
24	23-9	02-4	84	83-6	08-2	194	143-3	14-1	204	203-0	20-0	364	262-7	25-9
25	24-9	02-4	85	84-6	08-3	195	144-3	14-2	205	204-0	20-1	365	263-7	26-0
26	25-9	02-5	86	85-6	08-4	196	145-3	14-3	206	205-0	20-2	366	264-7	26-1
27	26-9	02-6	87	86-6	08-5	197	146-3	14-4	207	206-0	20-3	367	265-7	26-2
28	27-9	02-7	88	87-6	08-6	198	147-3	14-5	208	207-0	20-4	368	266-7	26-3
29	28-9	02-8	89	88-6	08-7	199	148-3	14-6	209	208-0	20-5	369	267-7	26-4
30	29-9	02-9	90	89-6	08-8	200	149-3	14-7	210	209-0	20-6	370	268-7	26-5
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32	31-8	03-1	92	91-6	09-0	202	151-3	14-9	212	211-0	20-8	372	270-7	26-7
33	32-8	03-2	93	92-6	09-1	203	152-3	15-0	213	212-0	20-9	373	271-7	26-8
34	33-8	03-3	94	93-5	09-2	204	153-3	15-1	214	213-0	21-0	374	272-7	26-9
35	34-8	03-4	95	94-5	09-3	205	154-3	15-2	215	214-0	21-1	375	273-7	27-0
36	35-8	03-5	96	95-5	09-4	206	155-3	15-3	216	215-0	21-2	376	274-7	27-1
37	36-8	03-6	97	96-5	09-5	207	156-3	15-4	217	216-0	21-3	377	275-7	27-2
38	37-8	03-7	98	97-5	09-6	208	157-3	15-5	218	217-0	21-4	378	276-7	27-3
39	38-8	03-8	99	98-5	09-7	209	158-3	15-6	219	217-9	21-5	379	277-7	27-4
40	39-8	03-9	100	99-5	09-8	210	159-3	15-7	220	218-9	21-6	380	278-7	27-5
41	40-8	04-0	101	100-5	09-9	211	160-3	15-8	221	219-9	21-7	381	279-6	27-6
42	41-8	04-1	102	101-5	10-0	212	161-3	15-9	222	220-9	21-8	382	280-6	27-7
43	42-8	04-2	103	102-5	10-1	213	162-3	16-0	223	221-9	21-9	383	281-6	27-8
44	43-8	04-3	104	103-5	10-2	214	163-3	16-1	224	222-9	22-0	384	282-6	27-9
45	44-8	04-4	105	104-5	10-3	215	164-3	16-2	225	223-9	22-1	385	283-6	28-0
46	45-8	04-5	106	105-5	10-4	216	165-3	16-3	226	224-9	22-2	386	284-6	28-1
47	46-8	04-6	107	106-5	10-5	217	166-3	16-4	227	225-9	22-3	387	285-6	28-2
48	47-8	04-7	108	107-5	10-6	218	167-3	16-5	228	226-9	22-4	388	286-6	28-3
49	48-8	04-8	109	108-5	10-7	219	168-3	16-6	229	227-9	22-5	389	287-6	28-4
50	49-8	04-9	110	109-5	10-8	220	169-3	16-7	230	228-9	22-6	390	288-6	28-5
51	50-8	05-0	111	110-5	10-9	221	170-3	16-8	231	229-9	22-7	391	289-6	28-6
52	51-7	05-1	112	111-5	11-0	222	171-3	16-9	232	230-9	22-8	392	290-6	28-7
53	52-7	05-2	113	112-5	11-1	223	172-3	17-0	233	231-9	22-9	393	291-6	28-8
54	53-7	05-3	114	113-5	11-2	224	173-3	17-1	234	232-9	23-0	394	292-6	28-9
55	54-7	05-4	115	114-4	11-3	225	174-3	17-2	235	233-9	23-1	395	293-6	29-0
56	55-7	05-5	116	115-4	11-4	226	175-3	17-3	236	234-9	23-2	396	294-6	29-1
57	56-7	05-6	117	116-4	11-5	227	176-3	17-4	237	235-9	23-3	397	295-6	29-2
58	57-7	05-7	118	117-4	11-6	228	177-3	17-5	238	236-9	23-4	398	296-6	29-3
59	58-7	05-8	119	118-4	11-7	229	178-3	17-6	239	237-9	23-5	399	297-6	29-4
60	59-7	05-9	120	119-4	11-8	230	179-3	17-7	240	238-9	23-6	400	298-6	29-5

For 1 Point.

For 4 Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	00-3	00-0	121	119-7	17-7	181	119-0	26-6	241	228-4	36-4
2	02-0	00-2	62	01-3	00-1	122	120-7	17-9	182	120-0	26-7	242	229-4	36-5
3	03-0	00-4	63	02-3	00-2	123	121-7	18-0	183	121-0	26-9	243	230-4	36-6
4	04-0	00-6	64	03-3	00-4	124	122-7	18-2	184	122-0	27-0	244	231-4	36-7
5	05-0	00-7	65	04-3	00-5	125	123-6	18-3	185	123-0	27-1	245	232-4	36-8
6	06-0	00-9	66	05-3	00-7	126	124-6	18-5	186	124-0	27-2	246	233-4	36-9
7	07-0	01-0	67	06-3	00-8	127	125-6	18-6	187	125-0	27-3	247	234-4	36-9
8	07-9	01-2	68	07-3	10-0	128	126-6	18-8	188	126-0	27-0	248	235-4	36-4
9	08-9	01-3	69	08-3	10-1	129	127-0	18-9	189	127-0	27-7	249	236-3	36-5
10	09-9	01-5	70	09-2	10-3	130	128-6	19-1	190	127-9	27-9	250	237-3	36-7
11	10-9	01-6	71	10-2	10-4	131	129-6	19-2	191	128-9	28-0	251	238-3	36-8
12	11-9	01-8	72	11-2	10-6	132	130-6	19-3	192	129-9	28-2	252	239-3	36-9
13	12-9	01-9	73	12-2	10-7	133	131-6	19-4	193	130-9	28-3	253	240-3	37-1
14	13-9	02-1	74	13-2	10-9	134	132-5	19-5	194	131-9	28-5	254	241-3	37-2
15	14-9	02-2	75	14-2	11-0	135	133-5	19-8	195	132-9	28-6	255	242-3	37-4
16	15-9	02-3	76	15-2	11-2	136	134-4	20-0	196	133-9	28-8	256	243-3	37-0
17	16-9	02-5	77	16-2	11-3	137	135-5	20-1	197	134-9	28-9	257	244-3	37-7
18	17-9	02-6	78	17-2	11-4	138	136-5	20-2	198	135-9	29-1	258	245-3	37-9
19	18-9	02-8	79	18-2	11-6	139	137-5	20-4	199	136-9	29-2	259	246-3	38-0
20	19-9	02-9	80	19-1	11-7	140	138-5	20-5	200	137-9	29-3	260	247-3	38-2
21	20-8	03-1	81	20-1	11-9	141	139-5	20-7	201	138-9	29-5	261	248-3	38-3
22	21-8	03-2	82	21-1	12-0	142	140-5	20-8	202	139-8	29-6	262	249-3	38-4
23	22-8	03-4	83	22-1	12-2	143	141-5	21-0	203	140-8	29-8	263	250-3	38-6
24	23-7	03-5	84	23-1	12-3	144	142-4	21-1	204	141-8	29-9	264	251-3	38-7
25	24-7	03-7	85	24-1	12-5	145	143-4	21-3	205	142-8	30-1	265	252-3	38-9
26	25-7	03-8	86	25-1	12-6	146	144-4	21-4	206	143-8	30-2	266	253-3	39-0
27	26-7	04-0	87	26-1	12-8	147	145-4	21-6	207	144-8	30-4	267	254-3	39-2
28	27-7	04-1	88	27-0	12-9	148	146-4	21-7	208	145-7	30-5	268	255-3	39-3
29	28-7	04-3	89	28-0	13-1	149	147-4	21-9	209	146-7	30-7	269	256-3	39-5
30	29-7	04-4	90	29-0	13-2	150	148-4	22-0	210	147-7	30-8	270	257-3	39-6
31	30-7	04-5	91	30-0	13-4	151	149-4	22-2	211	148-7	31-0	271	258-3	39-8
32	31-7	04-7	92	31-0	13-5	152	150-4	22-3	212	149-7	31-1	272	259-3	39-9
33	32-6	04-8	93	32-0	13-6	153	151-3	22-4	213	150-7	31-3	273	260-3	40-1
34	33-6	05-0	94	33-0	13-8	154	152-3	22-6	214	151-7	31-4	274	261-3	40-2
35	34-6	05-1	95	34-0	13-9	155	153-3	22-7	215	152-7	31-6	275	262-3	40-4
36	35-6	05-2	96	35-0	14-1	156	154-3	22-9	216	153-7	31-7	276	263-3	40-5
37	36-6	05-4	97	36-0	14-2	157	155-3	22-9	217	154-7	31-8	277	264-3	40-6
38	37-6	05-6	98	37-0	14-4	158	156-3	22-3	218	155-6	32-0	278	265-3	40-8
39	38-6	05-7	99	37-9	14-5	159	157-3	22-3	219	156-6	32-1	279	266-3	40-9
40	39-6	05-9	100	38-9	14-7	160	158-3	22-5	220	157-6	32-3	280	267-0	41-1
41	40-6	06-0	101	39-9	14-8	161	159-3	22-6	221	158-6	32-4	281	268-0	41-2
42	41-6	06-2	102	40-9	15-0	162	160-3	22-8	222	159-6	32-6	282	269-0	41-4
43	42-6	06-3	103	41-9	15-1	163	161-3	22-9	223	160-6	32-7	283	270-0	41-5
44	43-6	06-5	104	42-9	15-3	164	162-3	24-1	224	161-6	32-9	284	280-0	41-7
45	44-6	06-6	105	43-9	15-4	165	163-3	24-2	225	162-6	33-0	285	281-0	41-8
46	45-6	06-7	106	44-9	15-6	166	164-2	24-4	226	163-6	33-2	286	282-0	42-0
47	46-6	06-9	107	45-9	15-7	167	165-2	24-5	227	164-6	33-3	287	283-0	42-1
48	47-6	07-0	108	46-9	15-8	168	166-2	24-7	228	165-6	33-5	288	284-0	42-3
49	48-6	07-2	109	47-9	16-0	169	167-2	24-8	229	166-6	33-6	289	285-0	42-4
50	49-6	07-3	110	48-9	16-1	170	168-2	24-9	230	167-6	33-8	290	286-0	42-6
51	50-4	07-5	111	49-8	16-3	171	169-1	25-1	231	168-5	33-9	291	287-0	42-7
52	51-4	07-6	112	50-8	16-4	172	170-1	25-2	232	169-5	34-0	292	288-0	42-8
53	52-4	07-8	113	51-8	16-6	173	171-1	25-4	233	170-5	34-2	293	289-0	43-0
54	53-4	07-9	114	52-8	16-7	174	172-1	25-5	234	171-5	34-3	294	290-0	43-1
55	54-4	08-1	115	53-8	16-9	175	173-1	25-7	235	172-5	34-5	295	291-0	43-3
56	55-4	08-2	116	54-7	17-0	176	174-1	25-8	236	173-5	34-6	296	292-0	43-4
57	56-4	08-4	117	55-7	17-2	177	175-1	26-0	237	174-5	34-8	297	293-0	43-6
58	57-4	08-5	118	56-7	17-3	178	176-1	26-1	238	175-5	34-9	298	294-0	43-7
59	58-4	08-7	119	57-7	17-5	179	177-1	26-3	239	176-5	35-1	299	295-0	43-9
60	59-4	08-8	120	58-7	17-6	180	178-1	26-4	240	177-5	35-2	300	296-0	44-0

For 4 Point.

DIFFERENCE OF LATITUDE AND DEPARTURE.

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For 1 Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-3	61	00-2	11-9	131	118-7	20-6	181	177-5	30-3	241	200-4	47-0			
2	02-0	00-4	62	00-2	12-1	132	119-7	20-8	182	178-5	30-5	242	201-4	47-1			
3	03-0	00-6	63	01-3	12-3	133	120-6	21-0	183	179-5	30-7	243	202-3	47-4			
4	04-0	00-8	64	02-3	12-5	134	121-6	21-2	184	180-5	30-9	244	203-3	47-6			
5	05-0	01-0	65	03-3	12-7	135	122-6	21-4	185	181-4	31-1	245	204-3	47-8			
6	06-0	01-2	66	04-3	12-9	136	123-6	21-6	186	182-4	31-3	246	205-3	48-0			
7	07-0	01-4	67	05-3	13-1	137	124-6	21-8	187	183-4	31-5	247	206-3	48-2			
8	08-0	01-6	68	06-3	13-3	138	125-5	22-0	188	184-4	31-7	248	207-3	48-4			
9	09-0	01-8	69	07-3	13-5	139	126-5	22-2	189	185-4	31-9	249	208-3	48-6			
10	10-0	02-0	70	08-3	13-7	140	127-5	22-4	190	186-4	32-1	250	209-3	48-8			
11	11-0	02-1	71	09-6	13-9	141	128-5	22-6	191	187-3	32-3	251	210-2	49-0			
12	12-0	02-3	72	10-6	14-0	142	129-5	22-8	192	188-3	32-5	252	211-2	49-2			
13	13-0	02-5	73	11-6	14-2	143	130-4	23-0	193	189-3	32-7	253	212-1	49-4			
14	14-0	02-7	74	12-6	14-4	144	131-4	23-1	194	190-3	32-9	254	213-1	49-6			
15	15-0	02-9	75	13-6	14-6	145	132-4	23-3	195	191-3	33-1	255	214-1	49-7			
16	16-0	03-1	76	14-6	14-8	146	133-4	23-5	196	192-2	33-3	256	215-1	49-9			
17	17-0	03-3	77	15-6	15-0	147	134-4	23-7	197	193-2	33-5	257	216-1	50-1			
18	18-0	03-5	78	16-6	15-2	148	135-4	23-9	198	194-2	33-7	258	217-0	50-3			
19	19-0	03-7	79	17-6	15-4	149	136-3	24-1	199	195-2	33-9	259	218-0	50-5			
20	20-0	03-9	80	18-6	15-6	150	137-3	24-3	200	196-2	34-1	260	219-0	50-7			
21	21-0	04-1	81	19-6	15-8	151	138-3	24-5	201	197-1	34-3	261	220-0	50-9			
22	22-0	04-3	82	20-6	16-0	152	139-3	24-7	202	198-1	34-5	262	221-0	51-1			
23	23-0	04-5	83	21-6	16-2	153	140-3	24-9	203	199-1	34-7	263	222-0	51-3			
24	24-0	04-7	84	22-6	16-4	154	141-2	25-1	204	200-1	34-9	264	223-0	51-5			
25	25-0	04-9	85	23-6	16-6	155	142-2	25-3	205	201-1	35-1	265	224-0	51-7			
26	26-0	05-1	86	24-6	16-8	156	143-2	25-5	206	202-0	35-3	266	225-0	51-9			
27	27-0	05-3	87	25-6	17-0	157	144-2	25-7	207	203-0	35-5	267	226-0	52-1			
28	28-0	05-5	88	26-6	17-2	158	145-2	25-9	208	204-0	35-7	268	227-0	52-3			
29	29-0	05-7	89	27-6	17-4	159	146-1	26-1	209	205-0	35-9	269	228-0	52-5			
30	30-0	05-9	90	28-6	17-6	160	147-1	26-3	210	206-0	36-1	270	229-0	52-7			
31	31-0	06-0	91	29-3	17-8	161	148-1	26-5	211	207-0	36-3	271	230-0	52-9			
32	32-0	06-3	92	30-3	18-0	162	149-1	26-7	212	207-9	36-5	272	231-0	53-1			
33	33-0	06-4	93	31-3	18-1	163	150-1	26-9	213	208-9	36-7	273	232-0	53-3			
34	34-0	06-6	94	32-3	18-3	164	151-0	27-0	214	209-9	36-9	274	233-0	53-5			
35	35-0	06-8	95	33-3	18-5	165	152-0	27-2	215	210-9	37-1	275	234-0	53-7			
36	36-0	07-0	96	34-3	18-7	166	153-0	27-4	216	211-8	37-3	276	235-0	53-9			
37	37-0	07-2	97	35-3	18-9	167	154-0	27-6	217	212-8	37-5	277	236-0	54-1			
38	38-0	07-4	98	36-3	19-1	168	155-0	27-8	218	213-8	37-7	278	237-0	54-3			
39	39-0	07-6	99	37-3	19-3	169	156-0	28-0	219	214-8	37-9	279	238-0	54-5			
40	40-0	07-8	100	38-3	19-5	170	157-0	28-2	220	215-8	38-1	280	239-0	54-7			
41	41-0	08-0	101	39-3	19-7	171	158-0	28-4	221	216-8	38-3	281	240-0	54-9			
42	42-0	08-3	102	40-0	19-9	172	159-0	28-6	222	217-7	38-5	282	241-0	55-1			
43	43-0	08-4	103	41-0	20-1	173	160-0	28-8	223	218-7	38-7	283	242-0	55-3			
44	44-0	08-6	104	42-0	20-3	174	160-8	29-0	224	219-7	38-9	284	243-0	55-5			
45	45-0	08-8	105	43-0	20-5	175	161-8	29-2	225	220-7	39-1	285	244-0	55-7			
46	46-0	09-0	106	44-0	20-7	176	162-8	29-4	226	221-7	39-3	286	245-0	55-9			
47	47-0	09-2	107	45-0	20-9	177	163-6	29-6	227	222-6	39-5	287	246-0	56-1			
48	48-0	09-4	108	46-0	21-1	178	164-6	29-8	228	223-6	39-7	288	247-0	56-3			
49	49-0	09-6	109	47-0	21-3	179	165-6	30-0	229	224-6	39-9	289	248-0	56-5			
50	50-0	09-8	110	48-0	21-5	180	166-7	30-2	230	225-6	40-1	290	249-0	56-7			
51	51-0	10-0	111	49-0	21-7	181	167-7	30-4	231	226-6	40-3	291	250-0	56-9			
52	52-0	10-1	112	50-0	21-9	182	168-7	30-6	232	227-5	40-5	292	251-0	57-1			
53	53-0	10-3	113	51-0	22-1	183	169-7	30-8	233	228-5	40-7	293	252-0	57-3			
54	54-0	10-5	114	52-0	22-3	184	170-7	31-0	234	229-5	40-9	294	253-0	57-5			
55	55-0	10-7	115	53-0	22-5	185	171-6	31-2	235	230-5	41-1	295	254-0	57-7			
56	56-0	10-9	116	54-0	22-7	186	172-6	31-4	236	231-5	41-3	296	255-0	57-9			
57	57-0	11-1	117	55-0	22-9	187	173-6	31-6	237	232-4	41-5	297	256-0	58-1			
58	58-0	11-3	118	56-0	23-1	188	174-6	31-8	238	233-4	41-7	298	257-0	58-3			
59	59-0	11-5	119	57-0	23-3	189	175-6	32-0	239	234-4	41-9	299	258-0	58-5			
60	60-0	11-7	120	58-0	23-5	190	176-5	32-1	240	235-4	42-1	300	259-0	58-7			

For 7 Points.

For 14 Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	50-2	14-8	121	117-4	29-4	181	175-6	44-0	241	233-6	58-6
2	01-9	00-5	62	60-1	15-1	122	118-3	29-6	182	176-5	44-2	242	234-7	58-8
3	02-9	00-7	63	61-1	15-3	123	119-3	29-9	183	177-5	44-5	243	235-7	59-0
4	03-9	01-0	64	62-1	15-6	124	120-3	30-1	184	178-5	44-7	244	236-7	59-2
5	04-9	01-2	65	63-1	15-8	125	121-3	30-4	185	179-5	45-0	245	237-7	59-4
6	05-8	01-5	66	64-0	16-0	126	122-3	30-6	186	180-4	45-2	246	238-6	59-6
7	06-8	01-7	67	65-0	16-3	127	123-2	30-9	187	181-4	45-4	247	239-6	59-8
8	07-8	01-9	68	66-0	16-5	128	124-2	31-1	188	182-4	45-7	248	240-6	60-0
9	08-7	02-2	69	66-9	16-8	129	125-1	31-3	189	183-3	45-9	249	241-5	60-2
10	09-7	02-4	70	67-9	17-0	130	126-1	31-6	190	184-3	46-2	250	242-5	60-4
11	10-7	02-7	71	68-9	17-3	131	127-1	31-8	191	185-3	46-4	251	243-5	60-6
12	11-6	02-9	72	69-8	17-5	132	128-0	32-1	192	186-2	46-7	252	244-4	60-8
13	12-6	03-3	73	70-8	17-7	133	129-0	32-3	193	187-2	46-9	253	245-4	61-0
14	13-6	03-4	74	71-8	18-0	134	130-0	32-5	194	188-2	47-1	254	246-4	61-2
15	14-6	03-6	75	72-8	18-2	135	131-0	32-8	195	189-2	47-4	255	247-4	61-4
16	15-5	03-9	76	73-7	18-5	136	131-9	33-1	196	190-1	47-6	256	248-3	61-6
17	16-5	04-1	77	74-7	18-7	137	132-9	33-3	197	191-1	47-9	257	249-3	61-8
18	17-5	04-4	78	75-7	19-0	138	133-9	33-5	198	192-1	48-1	258	250-3	62-0
19	18-4	04-6	79	76-6	19-3	139	134-8	33-8	199	193-0	48-4	259	251-2	62-2
20	19-4	04-9	80	77-6	19-4	140	135-8	34-0	200	194-0	48-6	260	252-2	62-4
21	20-4	05-1	81	78-6	19-7	141	136-8	34-3	201	195-0	48-8	261	253-2	62-6
22	21-3	05-3	82	79-5	19-9	142	137-7	34-5	202	195-9	49-1	262	254-2	62-8
23	22-3	05-6	83	80-5	20-2	143	138-7	34-7	203	196-9	49-3	263	255-1	63-0
24	23-3	05-8	84	81-5	20-4	144	139-7	35-0	204	197-9	49-6	264	256-1	63-2
25	24-3	06-1	85	82-5	20-7	145	140-7	35-2	205	198-9	49-8	265	257-1	63-4
26	25-2	06-3	86	83-4	20-9	146	141-6	35-5	206	199-8	50-1	266	258-0	63-6
27	26-2	06-6	87	84-4	21-1	147	142-6	35-7	207	200-8	50-3	267	259-0	63-8
28	27-2	06-8	88	85-4	21-4	148	143-6	36-0	208	201-8	50-5	268	260-0	64-0
29	28-1	07-0	89	86-3	21-6	149	144-5	36-2	209	202-7	50-8	269	260-9	64-2
30	29-1	07-3	90	87-3	21-9	150	145-5	36-5	210	203-7	51-0	270	261-9	64-4
31	30-1	07-5	91	88-3	22-1	151	146-5	36-7	211	204-7	51-3	271	262-9	64-6
32	31-0	07-8	92	89-3	22-4	152	147-4	36-9	212	205-6	51-5	272	263-9	64-8
33	32-0	08-0	93	90-2	22-6	153	148-4	37-2	213	206-6	51-8	273	264-8	65-0
34	33-0	08-3	94	91-2	22-8	154	149-4	37-4	214	207-6	52-0	274	265-8	65-2
35	34-0	08-5	95	92-3	23-1	155	150-4	37-7	215	208-6	52-2	275	266-8	65-4
36	34-9	08-7	96	93-1	23-3	156	151-3	37-9	216	209-5	52-5	276	267-7	65-6
37	35-9	09-0	97	94-1	23-6	157	152-3	38-2	217	210-5	52-7	277	268-7	65-8
38	36-9	09-3	98	95-1	23-9	158	153-3	38-4	218	211-5	53-0	278	269-7	66-0
39	37-8	09-5	99	96-0	24-1	159	154-2	38-6	219	212-4	53-2	279	270-6	66-2
40	38-8	09-7	100	97-0	24-3	160	155-2	38-9	220	213-4	53-5	280	271-6	66-4
41	39-8	10-0	101	98-0	24-5	161	156-2	39-1	221	214-4	53-7	281	272-6	66-6
42	40-7	10-2	102	98-9	24-8	162	157-1	39-4	222	215-4	53-9	282	273-6	66-8
43	41-7	10-4	103	99-9	25-0	163	158-1	39-6	223	216-3	54-2	283	274-6	67-0
44	42-7	10-7	104	100-9	25-3	164	159-1	39-9	224	217-3	54-4	284	275-5	67-2
45	43-7	10-9	105	101-9	25-5	165	160-1	40-1	225	218-3	54-7	285	276-5	67-4
46	44-6	11-2	106	102-8	25-8	166	161-0	40-3	226	219-3	54-9	286	277-4	67-6
47	45-6	11-4	107	103-8	26-0	167	162-0	40-6	227	220-2	55-2	287	278-4	67-8
48	46-6	11-7	108	104-8	26-3	168	163-0	40-8	228	221-2	55-4	288	279-4	68-0
49	47-5	11-9	109	105-7	26-5	169	163-9	41-1	229	222-1	55-6	289	280-3	68-2
50	48-5	12-2	110	106-7	26-7	170	164-9	41-3	230	223-1	55-9	290	281-3	68-4
51	49-5	12-4	111	107-7	27-0	171	165-9	41-6	231	224-1	56-1	291	282-3	68-6
52	50-4	12-6	112	108-6	27-2	172	166-8	41-8	232	225-1	56-4	292	283-3	68-8
53	51-4	12-9	113	109-6	27-5	173	167-8	42-0	233	226-0	56-6	293	284-3	69-0
54	52-4	13-1	114	110-6	27-7	174	168-8	42-3	234	227-0	56-9	294	285-3	69-2
55	53-4	13-4	115	111-6	27-9	175	169-8	42-5	235	228-0	57-1	295	286-3	69-4
56	54-3	13-6	116	112-5	28-2	176	170-7	42-8	236	228-9	57-3	296	287-3	69-6
57	55-3	13-9	117	113-5	28-4	177	171-7	43-0	237	229-9	57-6	297	288-3	69-8
58	56-3	14-1	118	114-5	28-7	178	172-7	43-3	238	230-9	57-8	298	289-3	70-0
59	57-2	14-3	119	115-4	28-9	179	173-6	43-5	239	231-8	58-1	299	290-3	70-2
60	58-2	14-6	120	116-4	29-2	180	174-6	43-7	240	232-8	58-3	300	291-3	70-4

for 14 Point.

For 14 Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-3	61	58-4	17-7	121	115-8	35-1	181	172-2	55-5	241	230-8	70-9
2	01-0	00-6	62	58-3	18-0	122	116-8	35-4	182	174-2	52-8	242	231-8	70-2
3	01-0	00-9	63	60-9	18-3	123	117-7	35-7	183	175-1	53-1	243	232-9	70-6
4	01-0	01-2	64	61-2	18-6	124	118-7	36-0	184	176-1	53-4	244	233-5	70-8
5	01-0	01-5	65	62-2	18-9	125	119-6	36-3	185	177-0	53-7	245	234-6	71-1
6	01-0	01-7	66	63-2	19-2	126	120-6	36-6	186	178-0	54-0	246	235-4	71-4
7	01-0	02-0	67	64-1	19-4	127	121-5	36-9	187	179-0	54-2	247	236-4	71-7
8	01-0	02-3	68	65-1	19-7	128	122-5	37-2	188	179-9	54-5	248	237-3	72-0
9	01-0	02-6	69	66-0	20-0	129	123-5	37-4	189	180-9	54-8	249	238-3	72-3
10	01-0	02-9	70	67-0	20-3	130	124-4	37-7	190	181-8	55-2	250	239-2	72-6
11	10-3	03-2	71	67-9	20-6	131	125-4	38-0	191	182-8	55-4	251	240-2	72-9
12	11-5	03-5	72	68-9	20-9	132	126-3	38-3	192	183-7	55-7	252	241-2	73-2
13	13-4	03-8	73	69-9	21-2	133	127-3	38-6	193	184-7	56-0	253	242-1	73-4
14	15-4	04-1	74	70-8	21-5	134	128-2	38-9	194	185-7	56-3	254	243-1	73-7
15	14-4	04-4	75	71-8	21-8	135	129-2	39-2	195	186-6	56-6	255	244-0	74-0
16	15-2	04-6	76	72-7	22-1	136	130-1	39-5	196	187-6	56-9	256	245-0	74-3
17	16-3	04-9	77	73-7	22-4	137	131-1	39-8	197	188-5	57-2	257	245-9	74-6
18	17-2	05-2	78	74-6	22-6	138	132-1	40-1	198	189-5	57-5	258	246-9	74-9
19	18-2	05-5	79	75-6	22-9	139	133-0	40-3	199	190-4	57-8	259	247-9	75-2
20	19-1	05-8	80	76-6	23-2	140	134-0	40-6	200	191-4	58-1	260	248-8	75-5
21	20-1	06-1	81	77-5	23-5	141	134-9	40-9	201	192-3	58-4	261	249-8	75-8
22	21-1	06-4	82	78-5	23-8	142	135-9	41-2	202	193-3	58-6	262	250-7	76-1
23	22-0	06-7	83	79-4	24-1	143	136-8	41-5	203	194-3	58-9	263	251-7	76-4
24	23-0	07-0	84	80-4	24-4	144	137-8	41-8	204	195-2	59-2	264	252-6	76-6
25	23-9	07-3	85	81-3	24-7	145	138-8	42-1	205	196-2	59-5	265	253-6	76-9
26	24-9	07-5	86	82-3	25-0	146	139-7	42-4	206	197-1	59-8	266	254-6	77-2
27	25-8	07-8	87	83-3	25-3	147	140-7	42-7	207	198-1	60-1	267	255-5	77-5
28	26-8	08-1	88	84-2	25-6	148	141-6	43-0	208	199-0	60-4	268	256-5	77-8
29	27-8	08-4	89	85-2	25-9	149	142-6	43-3	209	200-0	60-7	269	257-4	78-1
30	28-7	08-7	90	86-1	26-1	150	143-5	43-6	210	201-0	61-0	270	258-4	78-4
31	29-7	09-0	91	87-1	26-4	151	144-5	43-8	211	201-9	61-2	271	259-3	78-7
32	30-6	09-3	92	88-0	26-7	152	145-5	44-1	212	202-9	61-5	272	260-2	79-0
33	31-6	09-6	93	89-0	27-0	153	146-4	44-4	213	203-8	61-8	273	261-2	79-3
34	32-5	09-9	94	90-0	27-3	154	147-4	44-7	214	204-8	62-1	274	262-2	79-6
35	33-5	10-2	95	90-9	27-6	155	148-3	45-0	215	205-7	62-4	275	263-2	79-9
36	34-5	10-5	96	91-9	27-9	156	149-3	45-3	216	206-7	62-7	276	264-1	80-1
37	35-4	10-7	97	92-8	28-2	157	150-2	45-6	217	207-7	63-0	277	265-1	80-4
38	36-4	11-0	98	93-8	28-4	158	151-2	45-9	218	208-6	63-3	278	266-0	80-7
39	37-3	11-3	99	94-7	28-7	159	152-2	46-2	219	209-6	63-6	279	267-0	81-0
40	38-2	11-6	100	95-7	29-0	160	153-1	46-4	220	210-5	63-9	280	267-9	81-3
41	39-2	11-9	101	96-7	29-3	161	154-1	46-7	221	211-5	64-2	281	268-9	81-6
42	40-2	12-2	102	97-6	29-6	162	155-0	47-0	222	212-4	64-5	282	269-9	81-9
43	41-2	12-5	103	98-6	29-9	163	156-0	47-3	223	213-4	64-7	283	270-8	82-2
44	42-1	12-8	104	99-5	30-2	164	156-9	47-6	224	214-4	65-0	284	271-8	82-4
45	43-1	13-1	105	100-5	30-5	165	157-9	47-9	225	215-3	65-3	285	272-7	82-7
46	44-0	13-4	106	101-4	30-8	166	158-9	48-2	226	216-3	65-6	286	273-7	82-9
47	45-0	13-6	107	102-4	31-1	167	159-8	48-5	227	217-3	65-9	287	274-6	83-2
48	45-9	13-9	108	103-4	31-4	168	160-8	48-8	228	218-2	66-2	288	275-6	83-5
49	46-8	14-2	109	104-3	31-6	169	161-7	49-1	229	219-1	66-5	289	276-6	83-8
50	47-9	14-5	110	105-3	31-9	170	162-7	49-3	230	220-1	66-8	290	277-5	84-1
51	48-8	14-8	111	106-2	32-2	171	163-6	49-6	231	221-1	67-1	291	278-5	84-3
52	49-8	15-1	112	107-2	32-5	172	164-6	49-9	232	222-0	67-4	292	279-4	84-6
53	50-7	15-4	113	108-1	32-8	173	165-6	50-2	233	223-0	67-6	293	280-4	84-9
54	51-7	15-7	114	109-1	33-1	174	166-5	50-5	234	223-9	67-9	294	281-3	85-2
55	52-6	16-0	115	110-1	33-4	175	167-5	50-8	235	224-9	68-2	295	282-3	85-5
56	53-6	16-3	116	111-0	33-7	176	168-4	51-1	236	225-8	68-5	296	283-2	85-8
57	54-5	16-6	117	112-0	34-0	177	169-4	51-4	237	226-8	68-8	297	284-2	86-1
58	55-5	16-9	118	112-9	34-3	178	170-3	51-7	238	227-7	69-1	298	285-1	86-4
59	56-4	17-1	119	113-9	34-5	179	171-3	52-0	239	228-7	69-4	299	286-1	86-6
60	57-4	17-4	120	114-8	34-8	180	172-3	52-3	240	229-7	69-7	300	287-1	87-1

For 64 Point.

For 1° Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-0	00-0	61	57-4	20-6	121	113-9	40-8	181	170-4	61-0	241	238-9	81-2	291	286-9	91-2
2	01-0	00-7	62	58-4	20-9	122	114-9	41-1	182	171-4	61-3	242	239-9	81-5	292	287-9	91-5
3	02-0	01-0	63	59-3	21-3	123	115-9	41-4	183	172-3	61-7	243	240-9	81-8	293	288-9	91-8
4	03-0	01-3	64	60-3	21-6	124	116-7	41-8	184	173-3	62-0	244	241-9	82-1	294	289-9	92-1
5	04-0	01-7	65	61-3	21-9	125	117-7	42-1	185	174-3	62-3	245	242-9	82-4	295	290-9	92-4
6	05-0	02-0	66	62-3	22-3	126	118-6	42-5	186	175-3	62-7	246	243-9	82-7	296	291-9	92-7
7	06-0	02-4	67	63-1	22-6	127	119-6	42-8	187	176-3	63-0	247	244-9	83-0	297	292-9	93-0
8	07-0	02-7	68	64-0	22-9	128	120-5	43-1	188	177-0	63-3	248	245-9	83-3	298	293-9	93-3
9	08-0	03-0	69	65-0	23-3	129	121-5	43-5	189	177-9	63-7	249	246-9	83-6	299	294-9	93-6
10	09-0	03-4	70	65-9	23-6	130	122-4	43-8	190	178-9	64-0	250	247-9	83-9	300	295-9	93-9
11	10-4	03-7	71	66-8	23-9	131	123-3	44-1	191	179-8	64-3	251	248-9	84-2	301	296-9	94-2
12	11-3	04-0	72	67-8	24-3	132	124-3	44-5	192	180-8	64-7	252	249-9	84-5	302	297-9	94-5
13	12-3	04-4	73	68-7	24-6	133	125-3	44-8	193	181-7	65-0	253	250-9	84-8	303	298-9	94-8
14	13-3	04-7	74	69-7	24-9	134	126-3	45-1	194	182-7	65-3	254	251-9	85-1	304	299-9	95-1
15	14-1	05-1	75	70-6	25-3	135	127-3	45-5	195	183-6	65-7	255	252-9	85-4	305	300-9	95-4
16	15-1	05-4	76	71-6	25-6	136	128-3	45-8	196	184-5	66-0	256	253-9	85-7	306	301-9	95-7
17	16-0	05-7	77	72-5	25-9	137	129-3	46-2	197	185-5	66-4	257	254-9	86-0	307	302-9	96-0
18	17-0	06-1	78	73-4	26-3	138	130-3	46-5	198	186-4	66-7	258	255-9	86-3	308	303-9	96-3
19	17-9	06-4	79	74-4	26-6	139	131-3	46-8	199	187-4	67-0	259	256-9	86-6	309	304-9	96-6
20	18-8	06-7	80	75-3	27-0	140	131-8	47-2	200	188-3	67-4	260	257-9	86-9	310	305-9	96-9
21	19-8	07-2	81	76-3	27-3	141	132-8	47-5	201	189-3	67-7	261	258-9	87-2	311	306-9	97-2
22	20-7	07-4	82	77-3	27-6	142	133-7	47-8	202	190-3	68-1	262	259-9	87-5	312	307-9	97-5
23	21-7	07-7	83	78-1	28-0	143	134-6	48-2	203	191-1	68-4	263	260-9	87-8	313	308-9	97-8
24	22-6	08-1	84	79-1	28-3	144	135-6	48-5	204	192-1	68-7	264	261-9	88-1	314	309-9	98-1
25	23-5	08-4	85	80-0	28-6	145	136-5	48-9	205	193-0	69-1	265	262-9	88-4	315	310-9	98-4
26	24-5	08-8	86	81-0	29-0	146	137-5	49-3	206	194-0	69-4	266	263-9	88-7	316	311-9	98-7
27	25-4	09-1	87	81-9	29-3	147	138-4	49-5	207	194-9	69-7	267	264-9	89-0	317	312-9	99-0
28	26-4	09-4	88	82-9	29-6	148	139-3	49-9	208	195-8	70-1	268	265-9	89-3	318	313-9	99-3
29	27-3	09-8	89	83-8	30-0	149	140-3	50-2	209	196-8	70-4	269	266-9	89-6	319	314-9	99-6
30	28-3	10-1	90	84-7	30-3	150	141-2	50-5	210	197-7	70-7	270	267-9	89-9	320	315-9	99-9
31	29-2	10-4	91	85-7	30-7	151	142-2	50-9	211	198-7	71-1	271	268-9	90-2	321	316-9	100-2
32	30-1	10-8	92	86-7	31-0	152	143-1	51-2	212	199-6	71-4	272	269-9	90-5	322	317-9	100-5
33	31-1	11-1	93	87-6	31-3	153	144-1	51-5	213	200-6	71-8	273	270-9	90-8	323	318-9	100-8
34	32-0	11-5	94	88-5	31-7	154	145-0	51-8	214	201-5	72-1	274	271-9	91-1	324	319-9	101-1
35	33-0	11-8	95	89-4	32-0	155	145-9	52-2	215	202-4	72-4	275	272-9	91-4	325	320-9	101-4
36	34-0	12-1	96	90-4	32-3	156	146-9	52-5	216	203-4	72-8	276	273-9	91-7	326	321-9	101-7
37	34-8	12-5	97	91-3	32-7	157	147-8	52-9	217	204-3	73-1	277	274-9	92-0	327	322-9	102-0
38	35-8	12-8	98	92-3	33-0	158	148-8	53-2	218	205-3	73-4	278	275-9	92-3	328	323-9	102-3
39	36-7	13-1	99	93-2	33-4	159	149-7	53-6	219	206-3	73-8	279	276-9	92-6	329	324-9	102-6
40	37-7	13-5	100	94-2	33-7	160	150-6	53-9	220	207-1	74-1	280	277-9	92-9	330	325-9	102-9
41	38-6	13-9	101	95-1	34-0	161	151-6	54-2	221	208-1	74-5	281	278-9	93-2	331	326-9	103-2
42	39-5	14-1	102	96-0	34-4	162	152-5	54-6	222	209-0	74-8	282	279-9	93-5	332	327-9	103-5
43	40-5	14-5	103	97-0	34-7	163	153-5	54-9	223	210-0	75-1	283	280-9	93-8	333	328-9	103-8
44	41-4	14-9	104	97-9	35-0	164	154-4	55-3	224	210-9	75-5	284	281-9	94-1	334	329-9	104-1
45	42-4	15-2	105	98-9	35-4	165	155-4	55-6	225	211-8	75-8	285	282-9	94-4	335	330-9	104-4
46	43-3	15-5	106	99-8	35-7	166	156-3	55-9	226	212-8	76-1	286	283-9	94-7	336	331-9	104-7
47	44-3	15-8	107	100-7	36-1	167	157-3	56-3	227	213-7	76-5	287	284-9	95-0	337	332-9	105-0
48	45-3	16-2	108	101-7	36-5	168	158-2	56-6	228	214-7	76-8	288	285-9	95-3	338	333-9	105-3
49	46-1	16-5	109	102-6	36-7	169	159-1	56-9	229	215-6	77-1	289	286-9	95-6	339	334-9	105-6
50	47-1	16-9	110	103-6	37-1	170	160-1	57-3	230	216-6	77-5	290	287-9	95-9	340	335-9	105-9
51	48-0	17-3	111	104-5	37-5	171	161-0	57-6	231	217-5	77-8	291	288-9	96-2	341	336-9	106-2
52	49-0	17-6	112	105-5	37-7	172	162-0	57-9	232	218-4	78-2	292	289-9	96-5	342	337-9	106-5
53	49-9	17-9	113	106-4	38-1	173	162-9	58-3	233	219-4	78-5	293	290-9	96-8	343	338-9	106-8
54	50-8	18-2	114	107-3	38-5	174	163-8	58-6	234	220-3	78-8	294	291-9	97-1	344	339-9	107-1
55	51-7	18-5	115	108-3	38-7	175	164-8	59-0	235	221-3	79-2	295	292-9	97-4	345	340-9	107-4
56	52-7	18-8	116	109-2	39-1	176	165-7	59-3	236	222-3	79-5	296	293-9	97-7	346	341-9	107-7
57	53-6	19-2	117	110-2	39-5	177	166-7	59-6	237	223-1	79-8	297	294-9	98-0	347	342-9	108-0
58	54-6	19-5	118	111-1	39-8	178	167-6	59-9	238	224-1	80-2	298	295-9	98-3	348	343-9	108-3
59	55-5	19-9	119	112-1	40-1	179	168-5	60-3	239	225-0	80-5	299	296-9	98-6	349	344-9	108-6
60	56-5	20-2	120	113-0	40-4	180	169-5	60-6	240	226-0	80-8	300	297-9	98-9	350	345-9	108-9

For 1° Point.

DIFFERENCE OF LATITUDE AND DEPARTURE.

361

For 1 Point.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-0	00-0	01	58-4	22-3	131	111-3	48-3	181	167-3	69-3	241	223-7	87-3			
2	00-0	00-0	02	57-8	22-7	132	112-7	48-7	182	168-7	69-7	242	224-6	87-6			
3	00-0	00-0	03	57-3	23-1	133	113-6	47-1	183	169-1	70-0	243	225-0	88-0			
4	00-0	00-0	04	56-1	24-0	134	114-6	47-0	184	170-0	70-4	244	226-4	88-4			
5	00-0	00-0	05	55-1	24-9	135	115-5	47-8	185	170-9	70-8	245	226-9	88-8			
6	00-0	00-0	06	54-0	25-3	136	116-4	48-2	186	171-8	71-2	246	227-8	89-2			
7	00-0	00-0	07	53-0	25-6	137	117-3	48-6	187	172-6	71-6	247	228-3	89-6			
8	00-0	00-0	08	52-3	26-0	138	118-3	49-0	188	173-7	71-9	248	229-1	90-0			
9	00-0	00-0	09	51-6	26-4	139	119-3	49-4	189	174-6	72-3	249	230-4	90-3			
10	00-0	00-0	10	50-7	26-8	140	120-1	49-8	190	175-6	72-7	250	231-0	90-7			
11	00-0	00-0	11	50-0	27-2	141	121-0	50-1	191	176-5	73-1	251	231-9	91-1			
12	00-0	00-0	12	49-3	27-6	142	122-0	50-5	192	177-4	73-5	252	232-8	91-4			
13	00-0	00-0	13	48-6	27-9	143	123-0	50-9	193	178-3	73-9	253	233-7	91-8			
14	00-0	00-0	14	47-9	28-3	144	123-8	51-3	194	179-2	74-3	254	234-7	92-2			
15	00-0	00-0	15	47-3	28-7	145	124-7	51-7	195	180-3	74-6	255	235-6	92-6			
16	00-0	00-0	16	46-6	29-1	146	125-7	52-0	196	181-1	75-0	256	236-6	93-0			
17	00-0	00-0	17	46-0	29-5	147	126-6	52-4	197	182-0	75-4	257	237-4	93-4			
18	00-0	00-0	18	45-4	29-9	148	127-5	52-8	198	182-9	75-8	258	238-4	93-8			
19	00-0	00-0	19	44-8	30-3	149	128-4	53-2	199	183-9	76-2	259	239-3	94-2			
20	00-0	00-0	20	44-2	30-6	150	129-3	53-6	200	184-8	76-6	260	240-3	94-6			
21	00-0	00-0	21	43-6	31-0	151	130-3	54-0	201	185-7	76-9	261	241-1	95-0			
22	00-0	00-0	22	43-0	31-4	152	131-2	54-4	202	186-6	77-3	262	242-1	95-4			
23	00-0	00-0	23	42-4	31-8	153	132-1	54-7	203	187-6	77-7	263	243-0	95-8			
24	00-0	00-0	24	41-8	32-1	154	133-0	55-1	204	188-5	78-1	264	244-0	96-2			
25	00-0	00-0	25	41-2	32-5	155	134-0	55-5	205	189-4	78-5	265	244-6	96-6			
26	00-0	00-0	26	40-6	32-9	156	134-9	55-9	206	190-3	78-9	266	245-6	97-0			
27	00-0	00-0	27	40-0	33-3	157	135-8	56-3	207	191-2	79-3	267	246-7	97-4			
28	00-0	00-0	28	39-4	33-7	158	136-7	56-6	208	192-1	79-6	268	247-6	97-8			
29	00-0	00-0	29	38-8	34-1	159	137-7	57-0	209	193-1	80-0	269	248-5	98-2			
30	00-0	00-0	30	38-2	34-4	160	138-6	57-4	210	194-0	80-4	270	249-5	98-6			
31	00-0	00-0	31	37-6	34-8	161	139-5	57-8	211	194-9	80-8	271	250-4	99-0			
32	00-0	00-0	32	37-0	35-2	162	140-4	58-2	212	195-9	81-1	272	251-3	99-4			
33	00-0	00-0	33	36-4	35-6	163	141-4	58-6	213	196-8	81-5	273	252-2	99-8			
34	00-0	00-0	34	35-8	36-0	164	142-3	58-9	214	197-7	81-9	274	253-1	100-2			
35	00-0	00-0	35	35-2	36-4	165	143-3	59-3	215	198-6	82-3	275	254-1	100-6			
36	00-0	00-0	36	34-6	36-7	166	144-1	59-7	216	199-6	82-7	276	255-0	101-0			
37	00-0	00-0	37	34-0	37-1	167	145-1	60-1	217	200-5	83-0	277	255-9	101-4			
38	00-0	00-0	38	33-4	37-5	168	146-0	60-5	218	201-4	83-4	278	256-8	101-8			
39	00-0	00-0	39	32-8	37-9	169	146-9	60-9	219	202-3	83-8	279	257-7	102-2			
40	00-0	00-0	40	32-2	38-3	170	147-8	61-3	220	203-3	84-2	280	258-7	102-6			
41	00-0	00-0	41	31-6	38-7	171	148-7	61-6	221	204-2	84-6	281	259-6	103-0			
42	00-0	00-0	42	31-0	39-1	172	149-7	62-0	222	205-1	85-0	282	260-5	103-4			
43	00-0	00-0	43	30-4	39-5	173	150-6	62-4	223	206-0	85-4	283	261-5	103-8			
44	00-0	00-0	44	30-0	39-8	174	151-5	62-8	224	207-0	85-7	284	262-4	104-2			
45	00-0	00-0	45	29-4	40-2	175	152-4	63-1	225	207-9	86-1	285	263-3	104-6			
46	00-0	00-0	46	28-8	40-6	176	153-4	63-5	226	208-8	86-5	286	264-3	105-0			
47	00-0	00-0	47	28-2	41-0	177	154-3	63-9	227	209-7	86-9	287	265-2	105-4			
48	00-0	00-0	48	27-6	41-3	178	155-3	64-3	228	210-6	87-3	288	266-1	105-8			
49	00-0	00-0	49	27-0	41-7	179	156-1	64-7	229	211-5	87-7	289	267-0	106-2			
50	00-0	00-0	50	26-4	42-1	180	157-1	65-1	230	212-4	88-1	290	267-9	106-6			
51	00-0	00-0	51	25-8	42-5	181	158-0	65-4	231	213-3	88-4	291	268-8	107-0			
52	00-0	00-0	52	25-2	42-9	182	158-9	65-8	232	214-3	88-8	292	269-7	107-4			
53	00-0	00-0	53	24-6	43-3	183	159-8	66-2	233	215-2	89-2	293	270-6	107-8			
54	00-0	00-0	54	24-0	43-6	184	160-8	66-6	234	216-1	89-6	294	271-5	108-2			
55	00-0	00-0	55	23-4	44-0	185	161-7	67-0	235	217-1	89-9	295	272-4	108-6			
56	00-0	00-0	56	22-8	44-4	186	162-6	67-4	236	218-0	90-3	296	273-3	109-0			
57	00-0	00-0	57	22-2	44-8	187	163-5	67-7	237	218-9	90-7	297	274-2	109-4			
58	00-0	00-0	58	21-6	45-2	188	164-5	68-1	238	219-8	91-1	298	275-1	109-8			
59	00-0	00-0	59	21-0	45-6	189	165-4	68-5	239	220-7	91-5	299	276-0	110-2			
60	00-0	00-0	60	20-4	45-9	190	166-3	68-9	240	221-6	91-9	300	277-0	110-6			

For 6 Points.

For 24 Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-4	61	55-1	26-1	121	109-4	51-7	181	163-0	77-4	241	217-9	103-0
2	01-8	00-9	62	56-0	26-5	122	110-3	52-2	182	164-5	77-8	242	218-8	103-5
3	02-7	01-3	63	57-0	26-9	123	111-2	52-6	183	165-4	78-3	243	219-7	104-0
4	03-6	01-7	64	57-9	27-4	124	112-1	53-0	184	166-3	78-7	244	220-6	104-5
5	04-5	02-1	65	58-8	27-8	125	113-0	53-5	185	167-2	79-1	245	221-5	105-0
6	05-4	02-6	66	59-7	28-2	126	113-9	53-9	186	168-1	79-5	246	222-4	105-5
7	06-3	03-0	67	60-6	28-6	127	114-8	54-3	187	169-0	80-0	247	223-3	106-0
8	07-2	03-4	68	61-5	29-1	128	115-7	54-7	188	169-9	80-4	248	224-2	106-5
9	08-1	03-8	69	62-4	29-5	129	116-6	55-2	189	170-9	80-8	249	225-1	107-0
10	09-0	04-3	70	63-3	29-9	130	117-5	55-6	190	171-8	81-2	250	226-0	107-5
11	09-9	04-7	71	64-2	30-4	131	118-4	56-0	191	172-7	81-7	251	226-9	108-0
12	10-8	05-1	72	65-1	30-8	132	119-3	56-4	192	173-6	82-1	252	227-8	108-5
13	11-8	05-6	73	66-0	31-2	133	120-2	56-9	193	174-5	82-5	253	228-7	109-0
14	12-7	06-0	74	66-9	31-6	134	121-1	57	194	175-4	83-0	254	229-6	109-5
15	13-6	06-4	75	67-8	32-1	135	122-0	57	195	176-3	83-4	255	230-5	110-0
16	14-5	06-8	76	68-7	32-5	136	122-9	58-1	196	177-2	83-8	256	231-4	110-5
17	15-4	07-3	77	69-6	32-9	137	123-8	58-6	197	178-1	84-2	257	232-3	111-0
18	16-3	07-7	78	70-5	33-4	138	124-7	59-0	198	179-0	84-7	258	233-2	111-5
19	17-2	08-1	79	71-4	33-8	139	125-7	59-4	199	179-9	85-1	259	234-1	112-0
20	18-1	08-6	80	72-3	34-2	140	126-6	59-9	200	180-8	85-5	260	235-0	112-5
21	19-0	09-0	81	73-2	34-6	141	127-5	60-3	201	181-7	85-9	261	235-9	113-0
22	19-9	09-4	82	74-1	35-1	142	128-4	60-7	202	182-6	86-4	262	236-8	113-5
23	20-8	09-8	83	75-0	35-6	143	129-3	61-2	203	183-5	86-8	263	237-7	114-0
24	21-7	10-3	84	75-9	35-9	144	130-2	61-6	204	184-4	87-2	264	238-6	114-5
25	22-6	10-7	85	76-8	36-3	145	131-1	62-0	205	185-3	87-7	265	239-5	115-0
26	23-5	11-1	86	77-7	36-8	146	132-0	62-4	206	186-2	88-1	266	240-4	115-5
27	24-4	11-5	87	78-6	37-2	147	132-9	62-9	207	187-1	88-5	267	241-3	116-0
28	25-3	12-0	88	79-6	37-6	148	133-8	63-3	208	188-0	88-9	268	242-2	116-5
29	26-2	12-4	89	80-5	38-1	149	134-7	63-7	209	188-9	89-4	269	243-1	117-0
30	27-1	12-8	90	81-4	38-5	150	135-6	64-1	210	189-8	89-8	270	244	117-5
31	28-0	13-3	91	82-3	38-9	151	136-5	64-6	211	190-7	90-2	271	245-0	118-0
32	28-9	13-7	92	83-2	39-3	152	137-4	65-0	212	191-6	90-6	272	245-9	118-5
33	29-8	14-1	93	84-1	39-8	153	138-3	65-4	213	192-5	91-1	273	246-8	119-0
34	30-7	14-5	94	85-0	40-2	154	139-2	65-9	214	193-4	91-5	274	247-7	119-5
35	31-6	15-0	95	85-9	40-6	155	140-1	66-3	215	194-3	91-9	275	248-6	120-0
36	32-5	15-4	96	86-8	41-1	156	141-0	66-7	216	195-2	92-4	276	249-5	120-5
37	33-4	15-8	97	87-7	41-5	157	141-9	67-1	217	196-1	92-8	277	250-4	121-0
38	34-4	16-3	98	88-6	41-9	158	142-8	67-6	218	197-1	93-2	278	251-3	121-5
39	35-3	16-7	99	89-5	42-3	159	143-7	68-0	219	198-0	93-6	279	252-2	122-0
40	36-2	17-1	100	90-4	42-8	160	144-6	68-4	220	198-9	94-1	280	253-1	122-5
41	37-1	17-5	101	91-3	43-2	161	145-5	68-9	221	199-8	94-5	281	254-0	123-0
42	38-0	18-0	102	92-2	43-6	162	146-4	69-3	222	200-7	94-9	282	254-9	123-5
43	38-9	18-4	103	93-1	44-0	163	147-3	69-7	223	201-6	95-4	283	255-8	124-0
44	39-8	18-8	104	94-0	44-5	164	148-3	70-1	224	202-5	95-8	284	256-7	124-5
45	40-7	19-2	105	94-9	44-9	165	149-2	70-6	225	203-4	96-2	285	257-6	125-0
46	41-6	19-7	106	95-8	45-3	166	150-1	71-0	226	204-3	96-6	286	258-5	125-5
47	42-5	20-1	107	96-7	45-8	167	151-0	71-4	227	205-2	97-1	287	259-4	126-0
48	43-4	20-5	108	97-6	46-2	168	151-9	71-8	228	206-1	97-5	288	260-3	126-5
49	44-3	21-0	109	98-5	46-6	169	152-8	72-3	229	207-0	97-9	289	261-2	127-0
50	45-2	21-4	110	99-4	47-0	170	153-7	72-7	230	207-9	98-3	290	262-1	127-5
51	46-1	21-8	111	100-3	47-5	171	154-6	73-1	231	208-8	98-8	291	263-0	128-0
52	47-0	22-2	112	101-2	47-9	172	155-5	73-6	232	209-7	99-2	292	263-9	128-5
53	47-9	22-7	113	102-1	48-3	173	156-4	74-0	233	210-6	99-6	293	264-8	129-0
54	48-8	23-1	114	103-1	48-7	174	157-3	74-4	234	211-5	100-1	294	265-7	129-5
55	49-7	23-5	115	104-0	49-2	175	158-2	74-8	235	212-4	100-5	295	266-6	130-0
56	50-6	23-9	116	104-9	49-6	176	159-1	75-3	236	213-3	100-9	296	267-5	130-5
57	51-5	24-4	117	105-8	50-0	177	160-0	75-7	237	214-2	101-3	297	268-4	131-0
58	52-4	24-8	118	106-7	50-5	178	160-9	76-1	238	215-1	101-8	298	269-3	131-5
59	53-3	25-3	119	107-6	50-9	179	161-8	76-5	239	216-1	102-2	299	270-2	132-0
60	54-2	25-7	120	108-5	51-3	180	162-7	77-0	240	217-0	102-6	300	271-1	132-5

For 54 Points.

For 2½ Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00 2	00 5	61	53 8	28 3	121	106 7	57 0	181	159 6	85 3	241	212 5	113 6
2	01 4	00 9	62	54 7	29 2	122	107 6	57 5	182	160 5	85 8	242	213 4	114 1
3	02 6	01 4	63	55 6	29 7	123	108 5	58 0	183	161 4	86 3	243	214 3	114 6
4	03 5	01 9	64	56 4	30 2	124	109 4	58 4	184	162 3	86 7	244	215 2	115 0
5	04 4	02 4	65	57 2	30 6	125	110 2	58 9	185	163 2	87 2	245	216 1	115 5
6	05 3	02 8	66	58 2	31 1	126	111 1	59 4	186	164 0	87 7	246	217 0	116 0
7	06 2	03 3	67	59 1	31 6	127	112 0	59 9	187	164 9	88 1	247	217 8	116 4
8	07 1	03 8	68	60 0	32 1	128	112 9	60 3	188	165 8	88 6	248	218 7	116 9
9	07 9	04 2	69	60 9	32 5	129	113 8	60 8	189	166 7	89 1	249	219 6	117 4
10	08 8	04 7	70	61 7	33 0	130	114 7	61 3	190	167 6	89 6	250	220 5	117 8
11	09 7	05 2	71	62 6	33 5	131	115 5	61 7	191	168 5	90 0	251	221 4	118 3
12	10 6	05 7	72	63 5	33 9	132	116 4	62 2	192	169 3	90 5	252	222 2	118 8
13	11 5	06 1	73	64 4	34 4	133	117 3	62 7	193	170 2	91 0	253	223 1	119 3
14	12 3	06 6	74	65 3	34 9	134	118 2	63 2	194	171 1	91 5	254	224 0	119 7
15	13 2	07 1	75	66 1	35 4	135	119 1	63 6	195	172 0	91 9	255	224 9	120 2
16	14 1	07 5	76	67 0	35 8	136	119 9	64 1	196	172 9	92 4	256	225 8	120 7
17	15 0	08 0	77	67 9	36 3	137	120 8	64 6	197	173 7	92 9	257	226 7	121 1
18	15 9	08 5	78	68 8	36 8	138	121 7	65 0	198	174 6	93 3	258	227 5	121 6
19	16 8	09 0	79	69 7	37 2	139	122 6	65 5	199	175 5	93 8	259	228 4	122 1
20	17 6	09 4	80	70 6	37 7	140	123 5	66 0	200	176 4	94 3	260	229 3	122 6
21	18 5	09 9	81	71 4	38 2	141	124 4	66 5	201	177 3	94 7	261	230 2	123 0
22	19 4	10 4	82	72 3	38 6	142	125 2	67 0	202	178 2	95 2	262	231 1	123 5
23	20 3	10 8	83	73 2	39 1	143	126 1	67 4	203	179 0	95 7	263	231 9	124 0
24	21 2	11 3	84	74 1	39 6	144	127 0	67 9	204	179 9	96 2	264	232 8	124 4
25	22 1	11 8	85	75 0	40 1	145	127 9	68 3	205	180 8	96 6	265	233 7	124 9
26	22 9	12 3	86	75 9	40 6	146	128 8	68 8	206	181 7	97 1	266	234 6	125 4
27	23 8	12 7	87	76 7	41 0	147	129 6	69 3	207	182 6	97 6	267	235 5	125 9
28	24 7	13 2	88	77 6	41 5	148	130 5	69 8	208	183 4	98 0	268	236 4	126 3
29	25 6	13 7	89	78 5	41 9	149	131 4	70 2	209	184 3	98 5	269	237 3	126 8
30	26 5	14 1	90	79 4	42 4	150	132 3	70 7	210	185 2	99 0	270	238 2	127 3
31	27 3	14 6	91	80 3	42 9	151	133 2	71 2	211	186 1	99 5	271	239 1	127 7
32	28 2	15 1	92	81 1	43 4	152	134 1	71 6	212	187 0	99 9	272	240 0	128 2
33	29 1	15 6	93	82 0	43 8	153	135 0	72 1	213	187 8	100 4	273	240 8	128 7
34	30 0	16 0	94	82 9	44 3	154	135 8	72 6	214	188 7	100 9	274	241 7	129 2
35	30 9	16 5	95	83 8	44 8	155	136 7	73 1	215	189 6	101 3	275	242 6	129 6
36	31 8	17 0	96	84 7	45 2	156	137 6	73 5	216	190 5	101 8	276	243 5	130 1
37	32 6	17 4	97	85 6	45 7	157	138 5	74 0	217	191 4	102 3	277	244 4	130 6
38	33 5	17 9	98	86 4	46 2	158	139 3	74 5	218	192 3	102 8	278	245 3	131 0
39	34 4	18 4	99	87 3	46 7	159	140 2	74 9	219	193 1	103 2	279	246 2	131 5
40	35 3	18 9	100	88 2	47 1	160	141 1	75 4	220	194 0	103 7	280	247 1	132 0
41	36 2	19 3	101	89 1	47 6	161	142 0	75 9	221	194 9	104 2	281	248 0	132 5
42	37 0	19 8	102	90 0	48 1	162	142 9	76 4	222	195 8	104 6	282	248 9	132 9
43	37 9	20 3	103	90 8	48 5	163	143 8	76 8	223	196 7	105 1	283	249 8	133 4
44	38 8	20 7	104	91 7	49 0	164	144 6	77 2	224	197 6	105 6	284	250 7	133 9
45	39 7	21 2	105	92 6	49 5	165	145 5	77 8	225	198 4	106 1	285	251 6	134 3
46	40 6	21 7	106	93 5	50 0	166	146 4	78 2	226	199 3	106 5	286	252 5	134 8
47	41 5	22 2	107	94 4	50 4	167	147 3	78 7	227	200 2	107 0	287	253 4	135 3
48	42 3	22 6	108	95 3	50 9	168	148 2	79 2	228	201 1	107 5	288	254 3	135 8
49	43 2	23 1	109	96 1	51 4	169	149 0	79 7	229	202 0	107 9	289	255 2	136 2
50	44 1	23 6	110	97 0	51 8	170	149 9	80 1	230	202 8	108 4	290	256 1	136 7
51	45 0	24 0	111	97 9	52 3	171	150 8	80 6	231	203 7	108 9	291	257 0	137 2
52	45 9	24 5	112	98 8	52 8	172	151 7	81 1	232	204 6	109 4	292	257 9	137 6
53	46 7	25 0	113	99 7	53 3	173	152 6	81 5	233	205 5	109 8	293	258 8	138 1
54	47 6	25 5	114	100 5	53 7	174	153 5	82 0	234	206 4	110 3	294	259 7	138 6
55	48 5	25 9	115	101 4	54 2	175	154 4	82 5	235	207 3	110 8	295	260 6	139 1
56	49 4	26 4	116	102 3	54 7	176	155 2	83 0	236	208 2	111 2	296	261 5	139 5
57	50 3	26 9	117	103 2	55 1	177	156 1	83 4	237	209 1	111 7	297	262 4	140 0
58	51 2	27 3	118	104 1	55 6	178	157 0	83 9	238	210 0	112 2	298	263 3	140 5
59	52 0	27 8	119	105 0	56 1	179	157 9	84 4	239	210 9	112 7	299	264 2	141 0
60	52 9	28 3	120	105 8	56 6	180	158 8	84 8	240	211 7	113 1	300	265 1	141 4

For 5½ Points.

For 2½ Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-5	61	52-3	31-4	121	103-8	62-2	181	155-3	93-0	241	206-7	123-9
2	01-7	01-0	62	53-2	31-9	122	104-6	62-7	182	156-1	93-6	242	207-6	124-4
3	02-6	01-5	63	54-0	32-4	123	105-5	63-2	183	157-0	94-1	243	208-4	124-9
4	03-4	02-1	64	54-9	32-9	124	106-4	63-7	184	157-8	94-6	244	209-3	125-4
5	04-3	02-6	65	55-8	33-4	125	107-2	64-3	185	158-7	95-1	245	210-1	125-9
6	05-1	03-1	66	56-6	33-9	126	108-1	64-8	186	159-5	95-6	246	211-0	126-4
7	06-0	03-6	67	57-5	34-4	127	108-9	65-3	187	160-4	96-1	247	211-9	126-9
8	06-9	04-1	68	58-3	35-0	128	109-8	65-8	188	161-2	96-6	248	212-7	127-4
9	07-7	04-6	69	59-2	35-5	129	110-6	66-3	189	162-1	97-2	249	213-6	127-9
10	08-6	05-1	70	60-0	36-0	130	111-5	66-8	190	163-0	97-7	250	214-4	128-4
11	09-4	05-7	71	60-9	36-5	131	112-4	67-3	191	163-8	98-2	251	215-3	128-9
12	10-3	06-2	72	61-8	37-0	132	113-2	67-9	192	164-7	98-7	252	216-1	129-4
13	11-2	06-7	73	62-6	37-5	133	114-1	68-4	193	165-5	99-2	253	217-0	129-9
14	12-0	07-2	74	63-5	38-0	134	114-9	68-9	194	166-4	99-7	254	217-9	130-4
15	12-9	07-7	75	64-3	38-6	135	115-8	69-4	195	167-3	100-2	255	218-7	130-9
16	13-7	08-2	76	65-2	39-1	136	116-6	69-9	196	168-1	100-8	256	219-6	131-4
17	14-6	08-7	77	66-0	39-6	137	117-5	70-4	197	169-0	101-3	257	220-4	131-9
18	15-4	09-3	78	66-9	40-1	138	118-4	70-9	198	169-8	101-8	258	221-3	132-4
19	16-3	09-8	79	67-8	40-6	139	119-2	71-5	199	170-7	102-3	259	222-1	132-9
20	17-2	10-3	80	68-6	41-1	140	120-1	72-0	200	171-5	102-8	260	223-0	133-4
21	18-0	10-8	81	69-5	41-6	141	120-9	72-5	201	172-4	103-3	261	223-9	133-9
22	18-9	11-3	82	70-3	42-2	142	121-8	73-0	202	173-3	103-8	262	224-7	134-4
23	19-7	11-8	83	71-2	42-7	143	122-7	73-5	203	174-1	104-3	263	225-6	134-9
24	20-6	12-3	84	72-0	43-2	144	123-5	74-0	204	175-0	104-8	264	226-4	135-4
25	21-4	12-9	85	72-9	43-7	145	124-4	74-5	205	175-8	105-3	265	227-3	135-9
26	22-3	13-4	86	73-8	44-2	146	125-2	75-1	206	176-7	105-8	266	228-2	136-4
27	23-2	13-9	87	74-6	44-7	147	126-1	75-6	207	177-5	106-3	267	229-0	136-9
28	24-0	14-4	88	75-5	45-2	148	126-9	76-1	208	178-4	106-8	268	229-9	137-4
29	24-9	14-9	89	76-3	45-7	149	127-8	76-6	209	179-3	107-3	269	230-7	137-9
30	25-7	15-4	90	77-2	46-3	150	128-7	77-1	210	180-1	107-8	270	231-6	138-4
31	26-6	15-9	91	78-1	46-8	151	129-5	77-6	211	181-0	108-3	271	232-4	138-9
32	27-4	16-4	92	78-9	47-3	152	130-4	78-1	212	181-8	108-8	272	233-3	139-4
33	28-3	17-0	93	79-8	47-8	153	131-2	78-7	213	182-7	109-3	273	234-2	139-9
34	29-2	17-5	94	80-6	48-3	154	132-1	79-2	214	183-5	110-0	274	235-0	140-4
35	30-0	18-0	95	81-5	48-8	155	132-9	79-7	215	184-4	110-5	275	235-9	140-9
36	30-9	18-5	96	82-3	49-3	156	133-8	80-2	216	185-3	111-0	276	236-7	141-4
37	31-7	19-0	97	83-2	49-9	157	134-7	80-7	217	186-1	111-6	277	237-6	141-9
38	32-6	19-5	98	84-1	50-4	158	135-5	81-2	218	187-0	112-1	278	238-4	142-4
39	33-5	20-0	99	84-9	50-9	159	136-4	81-7	219	187-8	112-6	279	239-3	142-9
40	34-3	20-6	100	85-8	51-4	160	137-2	82-2	220	188-7	113-1	280	240-2	143-4
41	35-2	21-1	101	86-6	51-9	161	138-1	82-8	221	189-6	113-6	281	241-0	143-9
42	36-0	21-6	102	87-5	52-4	162	138-9	83-3	222	190-4	114-1	282	241-9	144-4
43	36-9	22-1	103	88-3	52-9	163	139-8	83-8	223	191-3	114-6	283	242-7	144-9
44	37-7	22-6	104	89-2	53-5	164	140-7	84-3	224	192-1	115-2	284	243-6	145-4
45	38-6	23-1	105	90-1	54-0	165	141-5	84-8	225	193-0	115-7	285	244-4	145-9
46	39-5	23-6	106	90-9	54-5	166	142-4	85-3	226	193-8	116-2	286	245-3	146-4
47	40-3	24-2	107	91-8	55-0	167	143-2	85-8	227	194-7	116-7	287	246-2	146-9
48	41-2	24-7	108	92-6	55-6	168	144-1	86-4	228	195-5	117-2	288	247-0	147-4
49	42-0	25-2	109	93-5	56-0	169	145-0	86-9	229	196-4	117-7	289	247-9	147-9
50	42-9	25-7	110	94-3	56-5	170	145-8	87-4	230	197-3	118-2	290	248-7	148-4
51	43-7	26-2	111	95-2	57-1	171	146-7	87-9	231	198-1	118-8	291	249-6	148-9
52	44-6	26-7	112	96-1	57-6	172	147-5	88-4	232	199-0	119-3	292	250-5	149-4
53	45-5	27-2	113	96-9	58-1	173	148-4	88-9	233	199-8	119-8	293	251-3	149-9
54	46-3	27-8	114	97-8	58-6	174	149-2	89-4	234	200-7	120-3	294	252-2	150-4
55	47-2	28-3	115	98-6	59-1	175	150-1	90-0	235	201-5	120-8	295	253-0	150-9
56	48-0	28-8	116	99-5	59-6	176	151-0	90-5	236	202-4	121-3	296	253-9	151-4
57	48-9	29-3	117	100-4	60-1	177	151-8	91-0	237	203-3	121-8	297	254-7	151-9
58	49-7	29-8	118	101-2	60-7	178	152-7	91-5	238	204-1	122-3	298	255-6	152-4
59	50-6	30-3	119	102-1	61-2	179	153-5	92-0	239	205-0	122-8	299	256-5	152-9
60	51-5	30-8	120	102-9	61-7	180	154-4	92-5	240	205-9	123-3	300	257-4	153-4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 1½ Points.

For 3 Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	008	006	61	507	379	121	1006	672	181	1505	1006	241	3004	1739
2	017	011	62	516	384	122	1014	675	182	1513	1011	242	3012	1744
3	025	017	63	524	389	123	1023	683	183	1522	1017	243	3020	1750
4	033	022	64	532	395	124	1031	689	184	1530	1022	244	3028	1756
5	042	028	65	540	399	125	1039	694	185	1538	1028	245	3037	1763
6	050	033	66	549	367	126	1048	700	186	1547	1033	246	3045	1767
7	058	039	67	557	372	127	1056	706	187	1555	1039	247	3054	1773
8	067	044	68	565	378	128	1064	711	188	1563	1044	248	3062	1778
9	075	050	69	573	383	129	1071	717	189	1571	1050	249	3070	1783
10	083	056	70	582	389	130	1079	722	190	1579	1056	250	3078	1789
11	091	061	71	590	394	131	1087	728	191	1587	1061	251	3087	1794
12	100	067	72	599	400	132	1095	733	192	1595	1067	252	3095	1800
13	108	072	73	607	406	133	1103	739	193	1603	1072	253	3104	1806
14	116	078	74	615	411	134	1111	744	194	1611	1078	254	3112	1811
15	125	083	75	624	417	135	1119	750	195	1619	1083	255	3120	1817
16	133	089	76	632	422	136	1127	756	196	1627	1089	256	3129	1823
17	141	094	77	640	428	137	1135	761	197	1635	1094	257	3137	1828
18	150	100	78	648	433	138	1143	767	198	1643	1100	258	3145	1833
19	158	106	79	657	439	139	1150	772	199	1651	1106	259	3154	1839
20	167	111	80	665	444	140	1158	778	200	1659	1111	260	3162	1844
21	175	117	81	673	450	141	1167	783	201	1667	1117	261	3170	1849
22	183	122	82	681	456	142	1175	789	202	1675	1122	262	3179	1855
23	191	128	83	689	461	143	1183	794	203	1683	1128	263	3187	1860
24	200	133	84	697	467	144	1191	800	204	1691	1133	264	3195	1867
25	208	139	85	705	472	145	1199	806	205	1700	1139	265	3203	1872
26	216	144	86	713	478	146	1207	811	206	1708	1144	266	3211	1878
27	224	150	87	721	483	147	1215	817	207	1716	1150	267	3219	1883
28	232	156	88	729	489	148	1223	822	208	1724	1156	268	3227	1889
29	240	161	89	737	494	149	1231	828	209	1732	1161	269	3235	1894
30	248	167	90	745	500	150	1239	833	210	1740	1167	270	3243	1900
31	256	172	91	753	506	151	1247	839	211	1748	1172	271	3251	1906
32	264	178	92	761	511	152	1255	844	212	1756	1178	272	3259	1911
33	272	183	93	769	517	153	1263	850	213	1764	1183	273	3267	1917
34	280	189	94	777	522	154	1271	856	214	1772	1189	274	3275	1923
35	288	194	95	785	528	155	1279	861	215	1780	1194	275	3283	1928
36	296	200	96	793	533	156	1287	867	216	1788	1200	276	3291	1933
37	304	206	97	801	539	157	1295	872	217	1796	1206	277	3300	1939
38	312	211	98	809	544	158	1303	878	218	1804	1211	278	3308	1944
39	320	217	99	817	550	159	1311	884	219	1812	1217	279	3316	1950
40	328	222	100	825	556	160	1319	889	220	1820	1222	280	3324	1956
41	336	228	101	833	561	161	1327	894	221	1828	1228	281	3332	1961
42	344	233	102	841	567	162	1335	900	222	1836	1233	282	3340	1967
43	352	239	103	849	572	163	1343	906	223	1844	1239	283	3348	1972
44	360	244	104	857	578	164	1351	911	224	1852	1244	284	3356	1978
45	368	250	105	865	583	165	1359	917	225	1860	1250	285	3364	1983
46	376	256	106	873	589	166	1367	922	226	1868	1256	286	3372	1989
47	384	261	107	881	594	167	1375	928	227	1876	1261	287	3380	1994
48	392	267	108	889	600	168	1383	933	228	1884	1267	288	3388	2000
49	400	272	109	897	606	169	1391	939	229	1892	1272	289	3396	2006
50	408	278	110	905	611	170	1399	944	230	1900	1278	290	3404	2011
51	416	283	111	913	617	171	1407	950	231	1908	1283	291	3412	2017
52	424	289	112	921	622	172	1415	956	232	1916	1289	292	3420	2023
53	432	294	113	929	628	173	1423	961	233	1924	1294	293	3428	2028
54	440	300	114	937	633	174	1431	967	234	1932	1300	294	3436	2033
55	448	306	115	945	639	175	1439	972	235	1940	1306	295	3444	2039
56	456	311	116	953	644	176	1447	978	236	1948	1311	296	3452	2044
57	464	317	117	961	650	177	1455	983	237	1956	1317	297	3460	2050
58	472	322	118	969	656	178	1463	989	238	1964	1322	298	3468	2056
59	480	328	119	977	661	179	1471	994	239	1972	1328	299	3476	2061
60	488	333	120	985	667	180	1479	1000	240	1980	1333	300	3484	2067
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 6 Points.

For 34 Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-8	00-6	61	49-0	36-3	131	97-2	72-1	181	145-4	107-8	241	193-6	143-6
2	01-6	01-2	62	49-8	36-9	132	98-0	72-7	182	146-2	108-4	242	194-4	144-2
3	02-4	01-8	63	50-6	37-5	133	98-8	73-3	183	147-0	109-0	243	195-2	145-0
4	03-2	02-4	64	51-4	38-1	134	99-6	73-9	184	147-8	109-6	244	196-0	145-8
5	04-0	03-0	65	52-2	38-7	135	100-4	74-5	185	148-6	110-2	245	196-8	146-6
6	04-8	03-6	66	53-0	39-3	136	101-2	75-1	186	149-4	110-8	246	197-6	147-4
7	05-6	04-2	67	53-8	39-9	137	102-0	75-7	187	150-2	111-4	247	198-4	148-2
8	06-4	04-8	68	54-6	40-5	138	102-8	76-2	188	151-0	112-0	248	199-2	149-0
9	07-2	05-4	69	55-4	41-1	139	103-6	76-8	189	151-8	112-6	249	200-0	149-8
10	08-0	06-0	70	56-2	41-7	140	104-4	77-4	190	152-6	113-2	250	200-8	150-6
11	08-8	06-6	71	57-0	42-3	141	105-2	78-0	191	153-4	113-8	251	201-6	151-4
12	09-6	07-1	72	57-8	42-9	142	106-0	78-6	192	154-2	114-4	252	202-4	152-2
13	10-4	07-7	73	58-6	43-5	143	106-8	79-2	193	155-0	115-0	253	203-2	153-0
14	11-2	08-3	74	59-4	44-1	144	107-6	79-8	194	155-8	115-6	254	204-0	153-8
15	12-0	08-9	75	60-2	44-7	145	108-4	80-4	195	156-6	116-2	255	204-8	154-6
16	12-8	09-5	76	61-0	45-3	146	109-2	81-0	196	157-4	116-8	256	205-6	155-4
17	13-7	10-1	77	61-8	45-9	147	110-0	81-6	197	158-2	117-4	257	206-4	156-2
18	14-5	10-7	78	62-6	46-5	148	110-8	82-2	198	159-0	118-0	258	207-2	157-0
19	15-3	11-3	79	63-4	47-1	149	111-6	82-8	199	159-8	118-6	259	208-0	157-8
20	16-1	11-9	80	64-2	47-7	150	112-4	83-4	200	160-6	119-2	260	208-8	158-6
21	16-9	12-5	81	65-0	48-3	151	113-2	84-0	201	161-4	119-8	261	209-6	159-4
22	17-7	13-1	82	65-8	48-9	152	114-0	84-6	202	162-2	120-4	262	210-4	160-2
23	18-5	13-7	83	66-6	49-5	153	114-8	85-2	203	163-0	121-0	263	211-2	161-0
24	19-3	14-3	84	67-4	50-1	154	115-6	85-8	204	163-8	121-6	264	212-0	161-8
25	20-1	14-9	85	68-2	50-7	155	116-4	86-4	205	164-6	122-2	265	212-8	162-6
26	20-9	15-5	86	69-0	51-3	156	117-2	87-0	206	165-4	122-8	266	213-6	163-4
27	21-7	16-1	87	69-8	51-9	157	118-0	87-6	207	166-2	123-4	267	214-4	164-2
28	22-5	16-7	88	70-7	52-5	158	118-8	88-2	208	167-0	124-0	268	215-2	165-0
29	23-3	17-3	89	71-5	53-1	159	119-6	88-8	209	167-8	124-6	269	216-0	165-8
30	24-1	17-9	90	72-3	53-7	160	120-4	89-4	210	168-6	125-2	270	216-8	166-6
31	24-9	18-5	91	73-1	54-3	161	121-2	90-0	211	169-4	125-8	271	217-6	167-4
32	25-7	19-1	92	73-9	54-9	162	122-0	90-6	212	170-2	126-4	272	218-4	168-2
33	26-5	19-7	93	74-7	55-5	163	122-8	91-2	213	171-0	127-0	273	219-2	169-0
34	27-3	20-3	94	75-5	56-1	164	123-6	91-8	214	171-8	127-6	274	220-0	169-8
35	28-1	20-9	95	76-3	56-7	165	124-4	92-4	215	172-6	128-2	275	220-8	170-6
36	28-9	21-4	96	77-1	57-2	166	125-2	93-0	216	173-4	128-8	276	221-6	171-4
37	29-7	22-0	97	77-9	57-8	167	126-0	93-6	217	174-2	129-4	277	222-4	172-2
38	30-5	22-6	98	78-7	58-4	168	126-8	94-2	218	175-0	130-0	278	223-2	173-0
39	31-3	23-2	99	79-5	59-0	169	127-6	94-8	219	175-8	130-6	279	224-0	173-8
40	32-1	23-8	100	80-3	59-6	170	128-4	95-4	220	176-6	131-2	280	224-8	174-6
41	32-9	24-4	101	81-1	60-2	171	129-2	96-0	221	177-4	131-8	281	225-6	175-4
42	33-7	25-0	102	81-9	60-8	172	130-0	96-6	222	178-2	132-4	282	226-4	176-2
43	34-5	25-6	103	82-7	61-4	173	130-8	97-2	223	179-0	133-0	283	227-2	177-0
44	35-3	26-2	104	83-5	62-0	174	131-6	97-8	224	179-8	133-6	284	228-0	177-8
45	36-1	26-8	105	84-3	62-6	175	132-4	98-4	225	180-6	134-2	285	228-8	178-6
46	36-9	27-4	106	85-1	63-2	176	133-2	99-0	226	181-4	134-8	286	229-6	179-4
47	37-7	28-0	107	85-9	63-8	177	134-0	99-6	227	182-2	135-4	287	230-4	180-2
48	38-5	28-6	108	86-7	64-4	178	134-8	100-2	228	183-0	136-0	288	231-2	181-0
49	39-3	29-2	109	87-5	65-0	179	135-6	100-8	229	183-8	136-6	289	232-0	181-8
50	40-1	29-8	110	88-3	65-6	180	136-4	101-4	230	184-6	137-2	290	232-8	182-6
51	41-0	30-4	111	89-2	66-1	181	137-2	102-0	231	185-4	137-8	291	233-6	183-4
52	41-8	31-0	112	90-0	66-7	182	138-0	102-6	232	186-2	138-4	292	234-4	184-2
53	42-6	31-6	113	90-8	67-3	183	138-8	103-2	233	187-0	139-0	293	235-2	185-0
54	43-4	32-2	114	91-6	67-9	184	139-6	103-8	234	187-8	139-6	294	236-0	185-8
55	44-2	32-8	115	92-4	68-5	185	140-4	104-4	235	188-6	140-2	295	236-8	186-6
56	45-0	33-4	116	93-2	69-1	186	141-2	105-0	236	189-4	140-8	296	237-6	187-4
57	45-8	34-0	117	94-0	69-7	187	142-0	105-6	237	190-2	141-4	297	238-4	188-2
58	46-6	34-6	118	94-8	70-3	188	142-8	106-2	238	191-0	142-0	298	239-2	189-0
59	47-4	35-1	119	95-6	70-9	189	143-6	106-8	239	191-8	142-6	299	240-0	189-8
60	48-2	35-7	120	96-4	71-5	190	144-4	107-4	240	192-6	143-2	300	240-8	190-6
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 34 Points.

For 34 Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-8	00-6	61	47-2	38-7	121	93-5	76-8	181	139-9	114-8	241	180-3	132-9
2	01-5	01-3	62	47-9	39-8	122	94-3	77-4	182	140-7	115-5	242	181-1	133-6
3	02-3	01-9	63	48-7	40-0	123	95-1	78-0	183	141-5	116-1	243	181-8	134-2
4	03-1	02-5	64	49-5	40-6	124	95-9	78-7	184	142-2	116-7	244	182-6	134-8
5	03-9	03-2	65	50-2	41-2	125	96-6	79-3	185	143-0	117-4	245	183-4	135-4
6	04-6	03-8	66	51-0	41-9	126	97-4	79-9	186	143-8	118-0	246	184-2	136-1
7	05-4	04-4	67	51-8	42-5	127	98-2	80-6	187	144-6	118-6	247	185-0	136-7
8	06-2	05-1	68	52-6	43-1	128	98-9	81-2	188	145-3	119-3	248	185-7	137-3
9	07-0	05-7	69	53-3	43-8	129	99-7	81-8	189	146-1	119-9	249	186-5	137-9
10	07-7	06-3	70	54-1	44-4	130	100-5	82-5	190	146-9	120-5	250	187-3	138-6
11	08-5	07-0	71	54-9	45-0	131	101-3	83-1	191	147-6	121-2	251	188-0	139-2
12	09-3	07-6	72	55-7	45-7	132	102-0	83-7	192	148-4	121-8	252	188-8	139-9
13	10-0	08-2	73	56-4	46-3	133	102-8	84-4	193	149-2	122-4	253	189-6	140-5
14	10-8	08-9	74	57-2	46-9	134	103-6	85-0	194	150-0	123-1	254	190-3	141-1
15	11-6	09-5	75	58-0	47-6	135	104-4	85-6	195	150-7	123-7	255	191-1	141-8
16	12-4	10-2	76	58-7	48-2	136	105-1	86-3	196	151-5	124-3	256	191-9	142-4
17	13-1	10-8	77	59-5	48-8	137	105-9	86-9	197	152-3	125-0	257	192-7	143-0
18	13-9	11-4	78	60-3	49-5	138	106-7	87-5	198	153-1	125-6	258	193-4	143-7
19	14-7	12-1	79	61-1	50-1	139	107-4	88-2	199	153-8	126-2	259	194-2	144-3
20	15-5	12-7	80	61-8	50-8	140	108-2	88-8	200	154-6	126-9	260	195-0	144-9
21	16-2	13-3	81	62-6	51-4	141	109-0	89-4	201	155-4	127-5	261	195-8	145-6
22	17-0	14-0	82	63-4	52-0	142	109-8	90-1	202	156-1	128-1	262	196-6	146-2
23	17-8	14-6	83	64-2	52-7	143	110-5	90-7	203	156-9	128-8	263	197-3	146-8
24	18-6	15-2	84	64-9	53-3	144	111-3	91-4	204	157-7	129-4	264	198-1	147-5
25	19-3	15-8	85	65-7	53-9	145	112-1	92-0	205	158-5	130-1	265	198-9	148-1
26	20-1	16-5	86	66-5	54-6	146	112-9	92-6	206	159-2	130-7	266	199-6	148-7
27	20-9	17-1	87	67-3	55-2	147	113-6	93-3	207	160-0	131-3	267	200-4	149-3
28	21-6	17-8	88	68-0	55-8	148	114-4	93-9	208	160-8	132-0	268	201-2	150-0
29	22-4	18-4	89	68-8	56-5	149	115-2	94-5	209	161-6	132-6	269	202-0	150-7
30	23-0	19-0	90	69-6	57-1	150	116-0	95-2	210	162-3	133-2	270	202-8	151-3
31	24-0	19-7	91	70-3	57-7	151	116-7	95-8	211	163-1	133-8	271	203-5	151-9
32	24-7	20-3	92	71-1	58-4	152	117-5	96-4	212	163-9	134-5	272	204-3	152-6
33	25-5	20-9	93	71-9	59-0	153	118-3	97-1	213	164-7	135-1	273	205-0	153-2
34	26-3	21-6	94	72-7	59-6	154	119-0	97-7	214	165-4	135-8	274	205-8	153-8
35	27-1	22-2	95	73-4	60-3	155	119-8	98-3	215	166-2	136-4	275	206-6	154-5
36	27-8	22-8	96	74-2	60-9	156	120-6	99-0	216	167-0	137-0	276	207-4	155-1
37	28-6	23-5	97	75-0	61-5	157	121-4	99-6	217	167-7	137-7	277	208-1	155-7
38	29-4	24-1	98	75-8	62-2	158	122-1	100-2	218	168-5	138-3	278	208-9	156-4
39	30-1	24-7	99	76-5	62-8	159	122-9	100-9	219	169-3	138-9	279	209-7	157-0
40	30-9	25-4	100	77-3	63-4	160	123-7	101-5	220	170-1	139-6	280	210-5	157-6
41	31-7	26-0	101	78-1	64-1	161	124-5	102-1	221	170-8	140-2	281	211-3	158-3
42	32-5	26-6	102	78-8	64-7	162	125-2	102-8	222	171-6	140-8	282	212-0	158-9
43	33-2	27-3	103	79-6	65-3	163	126-0	103-4	223	172-4	141-5	283	212-8	159-5
44	34-0	27-9	104	80-4	66-0	164	126-8	104-0	224	173-2	142-1	284	213-6	160-2
45	34-8	28-5	105	81-2	66-6	165	127-5	104-7	225	173-9	142-7	285	214-4	160-8
46	35-6	29-2	106	81-9	67-2	166	128-3	105-3	226	174-7	143-4	286	215-1	161-4
47	36-3	29-8	107	82-7	67-9	167	129-1	105-9	227	175-5	144-0	287	215-9	162-1
48	37-1	30-5	108	83-5	68-5	168	129-9	106-6	228	176-2	144-6	288	216-7	162-7
49	37-9	31-1	109	84-3	69-1	169	130-6	107-2	229	177-0	145-3	289	217-5	163-3
50	38-7	31-7	110	85-0	69-8	170	131-4	107-8	230	177-8	145-9	290	218-3	164-0
51	39-4	32-4	111	85-8	70-4	171	132-2	108-5	231	178-6	146-5	291	219-0	164-6
52	40-2	33-0	112	86-6	71-1	172	133-0	109-1	232	179-3	147-2	292	219-8	165-2
53	41-0	33-6	113	87-4	71-7	173	133-7	109-8	233	180-1	147-8	293	220-6	165-9
54	41-7	34-3	114	88-1	72-3	174	134-5	110-4	234	180-9	148-4	294	221-4	166-5
55	42-5	34-9	115	88-9	73-0	175	135-3	111-0	235	181-7	149-1	295	222-2	167-1
56	43-3	35-5	116	89-7	73-6	176	136-0	111-7	236	182-4	149-7	296	223-0	167-8
57	44-1	36-2	117	90-4	74-2	177	136-8	112-3	237	183-2	150-4	297	223-8	168-4
58	44-8	36-8	118	91-2	74-9	178	137-6	112-9	238	184-0	151-0	298	224-6	169-0
59	45-6	37-4	119	92-0	75-5	179	138-4	113-6	239	184-7	151-6	299	225-4	169-7
60	46-4	38-1	120	92-8	76-1	180	139-1	114-2	240	185-5	152-3	300	226-2	170-3
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Y

For 34 Points.

For 3½ Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.7	00.7	61	45.2	41.0	121	89.7	81.3	181	134.1	121.6	241	178.6	161.8
2	01.5	01.3	62	45.9	41.6	122	90.4	81.9	182	134.9	122.2	242	179.3	162.5
3	02.2	02.0	63	46.7	42.3	123	91.1	82.6	183	135.6	122.9	243	180.1	163.2
4	03.0	02.7	64	47.4	43.0	124	91.9	83.3	184	136.3	123.6	244	180.8	163.9
5	03.7	03.4	65	48.2	43.7	125	92.6	83.9	185	137.1	124.2	245	181.5	164.5
6	04.4	04.0	66	48.9	44.3	126	93.4	84.6	186	137.8	124.9	246	182.3	165.2
7	05.2	04.7	67	49.6	45.0	127	94.1	85.3	187	138.6	125.6	247	183.0	165.9
8	05.9	05.4	68	50.4	45.7	128	94.8	86.0	188	139.3	126.3	248	183.8	166.5
9	06.7	06.0	69	51.1	46.3	129	95.6	86.6	189	140.0	126.9	249	184.5	167.2
10	07.4	06.7	70	51.9	47.0	130	96.3	87.3	190	140.8	127.6	250	185.2	167.9
11	08.2	07.4	71	52.6	47.7	131	97.1	88.0	191	141.5	128.3	251	186.0	168.6
12	08.9	08.1	72	53.3	48.4	132	97.8	88.6	192	142.3	128.9	252	186.7	169.2
13	09.6	08.7	73	54.1	49.0	133	98.5	89.3	193	143.0	129.6	253	187.5	169.9
14	10.4	09.4	74	54.8	49.7	134	99.1	90.0	194	143.7	130.3	254	188.2	170.6
15	11.1	10.1	75	55.6	50.3	135	100.1	90.7	195	144.5	130.9	255	188.9	171.2
16	11.9	10.7	76	56.3	51.0	136	100.4	91.3	196	145.2	131.6	256	189.7	171.9
17	12.6	11.4	77	57.1	51.7	137	101.5	92.0	197	146.0	132.3	257	190.4	172.6
18	13.3	12.1	78	57.8	52.4	138	102.3	92.7	198	146.7	133.0	258	191.2	173.3
19	14.1	12.8	79	58.5	53.0	139	103.0	93.3	199	147.4	133.6	259	191.9	173.9
20	14.8	13.4	80	59.3	53.7	140	103.7	94.0	200	148.2	134.3	260	192.6	174.6
21	15.6	14.1	81	60.0	54.4	141	104.5	94.7	201	148.9	135.0	261	193.4	175.3
22	16.3	14.8	82	60.8	55.1	142	105.2	95.4	202	149.7	135.6	262	194.1	175.9
23	17.0	15.4	83	61.5	55.7	143	106.0	96.0	203	150.4	136.3	263	194.9	176.6
24	17.8	16.1	84	62.2	56.4	144	106.7	96.7	204	151.2	137.0	264	195.6	177.3
25	18.5	16.8	85	63.0	57.1	145	107.4	97.4	205	151.9	137.7	265	196.4	178.0
26	19.3	17.5	86	63.7	57.7	146	108.2	98.0	206	152.6	138.3	266	197.1	178.6
27	20.0	18.1	87	64.5	58.4	147	108.9	98.7	207	153.4	139.0	267	197.8	179.3
28	20.7	18.8	88	65.2	59.1	148	109.7	99.4	208	154.1	139.7	268	198.6	180.0
29	21.5	19.5	89	65.9	59.8	149	110.4	100.1	209	154.9	140.3	269	199.3	180.6
30	22.2	20.1	90	66.7	60.4	150	111.1	100.7	210	155.6	141.0	270	200.1	181.3
31	23.0	20.8	91	67.4	61.1	151	111.9	101.4	211	156.3	141.7	271	200.8	182.0
32	23.7	21.5	92	68.2	61.8	152	112.6	102.1	212	157.1	142.4	272	201.5	182.7
33	24.5	22.2	93	68.9	62.4	153	113.4	102.7	213	157.8	143.0	273	202.3	183.3
34	25.2	22.8	94	69.6	63.1	154	114.1	103.4	214	158.6	143.7	274	203.0	184.0
35	25.9	23.5	95	70.4	63.8	155	114.8	104.1	215	159.3	144.4	275	203.8	184.7
36	26.7	24.2	96	71.1	64.5	156	115.6	104.8	216	160.0	145.0	276	204.5	185.3
37	27.4	24.8	97	71.9	65.1	157	116.3	105.4	217	160.8	145.7	277	205.2	186.0
38	28.2	25.5	98	72.6	65.8	158	117.1	106.1	218	161.5	146.4	278	206.0	186.7
39	28.9	26.2	99	73.4	66.5	159	117.8	106.8	219	162.3	147.1	279	206.7	187.4
40	29.6	26.9	100	74.1	67.2	160	118.6	107.4	220	163.0	147.7	280	207.5	188.0
41	30.4	27.5	101	74.8	67.8	161	119.3	108.1	221	163.8	148.4	281	208.2	188.7
42	31.1	28.2	102	75.6	68.5	162	120.0	108.8	222	164.5	149.1	282	208.9	189.4
43	31.9	28.9	103	76.3	69.2	163	120.8	109.5	223	165.2	149.7	283	209.7	190.0
44	32.6	29.5	104	77.1	69.8	164	121.5	110.1	224	166.0	150.4	284	210.4	190.7
45	33.3	30.2	105	77.8	70.5	165	122.3	110.8	225	166.7	151.1	285	211.2	191.4
46	34.1	30.9	106	78.5	71.2	166	123.0	111.5	226	167.5	151.8	286	211.9	192.1
47	34.8	31.6	107	79.3	71.9	167	123.7	112.2	227	168.2	152.4	287	212.7	192.7
48	35.6	32.2	108	80.0	72.5	168	124.5	112.8	228	168.9	153.1	288	213.4	193.4
49	36.3	32.9	109	80.8	73.2	169	125.2	113.5	229	169.7	153.8	289	214.1	194.1
50	37.0	33.6	110	81.5	73.9	170	126.0	114.2	230	170.4	154.5	290	214.9	194.8
51	37.8	34.2	111	82.2	74.5	171	126.7	114.8	231	171.2	155.1	291	215.6	195.4
52	38.5	34.9	112	83.0	75.2	172	127.4	115.5	232	171.9	155.8	292	216.4	196.1
53	39.3	35.6	113	83.7	75.9	173	128.2	116.2	233	172.6	156.5	293	217.1	196.8
54	40.0	36.3	114	84.5	76.6	174	128.9	116.9	234	173.4	157.1	294	217.8	197.4
55	40.8	36.9	115	85.2	77.2	175	129.7	117.5	235	174.1	157.8	295	218.6	198.1
56	41.5	37.6	116	86.0	77.9	176	130.4	118.2	236	174.9	158.5	296	219.3	198.8
57	42.2	38.3	117	86.7	78.6	177	131.1	118.9	237	175.6	159.2	297	220.1	199.4
58	43.0	39.0	118	87.4	79.2	178	131.9	119.5	238	176.3	159.8	298	220.8	200.1
59	43.7	39.6	119	88.2	79.9	179	132.6	120.2	239	177.1	160.5	299	221.5	200.8
60	44.5	40.3	120	88.9	80.6	180	133.4	120.9	240	177.8	161.2	300	222.3	201.5
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 4½ Points.

For 4 Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00°7'	00°7'	61	43°1'	43°1'	121	85°6'	85°6'	181	128°0'	128°0'	241	170°4'	170°4'
2	01°4'	01°4'	62	43°8'	43°8'	122	86°3'	86°3'	182	128°7'	128°7'	242	171°1'	171°1'
3	02°1'	02°1'	63	44°5'	44°5'	123	87°0'	87°0'	183	129°4'	129°4'	243	171°8'	171°8'
4	02°8'	02°8'	64	45°3'	45°3'	124	87°7'	87°7'	184	130°1'	130°1'	244	172°5'	172°5'
5	03°5'	03°5'	65	46°0'	46°0'	125	88°4'	88°4'	185	130°8'	130°8'	245	173°2'	173°2'
6	04°2'	04°2'	66	46°7'	46°7'	126	89°1'	89°1'	186	131°5'	131°5'	246	173°9'	173°9'
7	04°9'	04°9'	67	47°4'	47°4'	127	89°8'	89°8'	187	132°2'	132°2'	247	174°7'	174°7'
8	05°7'	05°7'	68	48°1'	48°1'	128	90°5'	90°5'	188	132°9'	132°9'	248	175°4'	175°4'
9	06°4'	06°4'	69	48°8'	48°8'	129	91°2'	91°2'	189	133°6'	133°6'	249	176°1'	176°1'
10	07°1'	07°1'	70	49°5'	49°5'	130	91°9'	91°9'	190	134°3'	134°3'	250	176°8'	176°8'
11	07°8'	07°8'	71	50°2'	50°2'	131	92°6'	92°6'	191	135°0'	135°0'	251	177°5'	177°5'
12	08°5'	08°5'	72	50°9'	50°9'	132	93°3'	93°3'	192	135°7'	135°7'	252	178°2'	178°2'
13	09°2'	09°2'	73	51°6'	51°6'	133	94°0'	94°0'	193	136°4'	136°4'	253	178°9'	178°9'
14	09°9'	09°9'	74	52°3'	52°3'	134	94°8'	94°8'	194	137°2'	137°2'	254	179°6'	179°6'
15	10°6'	10°6'	75	53°0'	53°0'	135	95°5'	95°5'	195	137°9'	137°9'	255	180°3'	180°3'
16	11°3'	11°3'	76	53°7'	53°7'	136	96°2'	96°2'	196	138°6'	138°6'	256	181°0'	181°0'
17	12°0'	12°0'	77	54°4'	54°4'	137	96°9'	96°9'	197	139°3'	139°3'	257	181°7'	181°7'
18	12°7'	12°7'	78	55°2'	55°2'	138	97°6'	97°6'	198	140°0'	140°0'	258	182°4'	182°4'
19	13°4'	13°4'	79	55°9'	55°9'	139	98°3'	98°3'	199	140°7'	140°7'	259	183°1'	183°1'
20	14°1'	14°1'	80	56°6'	56°6'	140	99°0'	99°0'	200	141°4'	141°4'	260	183°8'	183°8'
21	14°8'	14°8'	81	57°3'	57°3'	141	99°7'	99°7'	201	142°1'	142°1'	261	184°6'	184°6'
22	15°6'	15°6'	82	58°0'	58°0'	142	100°4'	100°4'	202	142°8'	142°8'	262	185°3'	185°3'
23	16°3'	16°3'	83	58°7'	58°7'	143	101°1'	101°1'	203	143°5'	143°5'	263	186°0'	186°0'
24	17°0'	17°0'	84	59°4'	59°4'	144	101°8'	101°8'	204	144°2'	144°2'	264	186°7'	186°7'
25	17°7'	17°7'	85	60°1'	60°1'	145	102°5'	102°5'	205	145°0'	145°0'	265	187°4'	187°4'
26	18°4'	18°4'	86	60°8'	60°8'	146	103°2'	103°2'	206	145°7'	145°7'	266	188°1'	188°1'
27	19°1'	19°1'	87	61°5'	61°5'	147	103°9'	103°9'	207	146°4'	146°4'	267	188°8'	188°8'
28	19°8'	19°8'	88	62°2'	62°2'	148	104°7'	104°7'	208	147°1'	147°1'	268	189°5'	189°5'
29	20°5'	20°5'	89	62°9'	62°9'	149	105°4'	105°4'	209	147°8'	147°8'	269	190°2'	190°2'
30	21°2'	21°2'	90	63°6'	63°6'	150	106°1'	106°1'	210	148°5'	148°5'	270	190°9'	190°9'
31	21°9'	21°9'	91	64°3'	64°3'	151	106°8'	106°8'	211	149°2'	149°2'	271	191°6'	191°6'
32	22°6'	22°6'	92	65°0'	65°0'	152	107°5'	107°5'	212	149°9'	149°9'	272	192°3'	192°3'
33	23°3'	23°3'	93	65°8'	65°8'	153	108°2'	108°2'	213	150°6'	150°6'	273	193°0'	193°0'
34	24°0'	24°0'	94	66°5'	66°5'	154	108°9'	108°9'	214	151°3'	151°3'	274	193°7'	193°7'
35	24°7'	24°7'	95	67°2'	67°2'	155	109°6'	109°6'	215	152°0'	152°0'	275	194°4'	194°4'
36	25°5'	25°5'	96	67°9'	67°9'	156	110°3'	110°3'	216	152°7'	152°7'	276	195°2'	195°2'
37	26°2'	26°2'	97	68°6'	68°6'	157	111°0'	111°0'	217	153°4'	153°4'	277	195°9'	195°9'
38	26°9'	26°9'	98	69°3'	69°3'	158	111°7'	111°7'	218	154°1'	154°1'	278	196°6'	196°6'
39	27°6'	27°6'	99	70°0'	70°0'	159	112°4'	112°4'	219	154°9'	154°9'	279	197°3'	197°3'
40	28°3'	28°3'	100	70°7'	70°7'	160	113°1'	113°1'	220	155°6'	155°6'	280	198°0'	198°0'
41	29°0'	29°0'	101	71°4'	71°4'	161	113°8'	113°8'	221	156°3'	156°3'	281	198°7'	198°7'
42	29°7'	29°7'	102	72°1'	72°1'	162	114°6'	114°6'	222	157°0'	157°0'	282	199°4'	199°4'
43	30°4'	30°4'	103	72°8'	72°8'	163	115°3'	115°3'	223	157°7'	157°7'	283	200°1'	200°1'
44	31°1'	31°1'	104	73°5'	73°5'	164	116°0'	116°0'	224	158°4'	158°4'	284	200°8'	200°8'
45	31°8'	31°8'	105	74°2'	74°2'	165	116°7'	116°7'	225	159°1'	159°1'	285	201°5'	201°5'
46	32°5'	32°5'	106	75°0'	75°0'	166	117°4'	117°4'	226	159°8'	159°8'	286	202°2'	202°2'
47	33°2'	33°2'	107	75°7'	75°7'	167	118°1'	118°1'	227	160°5'	160°5'	287	202°9'	202°9'
48	33°9'	33°9'	108	76°4'	76°4'	168	118°8'	118°8'	228	161°2'	161°2'	288	203°6'	203°6'
49	34°6'	34°6'	109	77°1'	77°1'	169	119°5'	119°5'	229	161°9'	161°9'	289	204°4'	204°4'
50	35°4'	35°4'	110	77°8'	77°8'	170	120°2'	120°2'	230	162°6'	162°6'	290	205°1'	205°1'
51	36°1'	36°1'	111	78°5'	78°5'	171	120°9'	120°9'	231	163°3'	163°3'	291	205°8'	205°8'
52	36°8'	36°8'	112	79°2'	79°2'	172	121°6'	121°6'	232	164°0'	164°0'	292	206°5'	206°5'
53	37°5'	37°5'	113	79°9'	79°9'	173	122°3'	122°3'	233	164°8'	164°8'	293	207°2'	207°2'
54	38°2'	38°2'	114	80°6'	80°6'	174	123°0'	123°0'	234	165°5'	165°5'	294	207°9'	207°9'
55	38°9'	38°9'	115	81°3'	81°3'	175	123°7'	123°7'	235	166°2'	166°2'	295	208°6'	208°6'
56	39°6'	39°6'	116	82°0'	82°0'	176	124°4'	124°4'	236	166°9'	166°9'	296	209°3'	209°3'
57	40°3'	40°3'	117	82°7'	82°7'	177	125°1'	125°1'	237	167°6'	167°6'	297	210°0'	210°0'
58	41°0'	41°0'	118	83°4'	83°4'	178	125°9'	125°9'	238	168°3'	168°3'	298	210°7'	210°7'
59	41°7'	41°7'	119	84°1'	84°1'	179	126°6'	126°6'	239	169°0'	169°0'	299	211°4'	211°4'
60	42°4'	42°4'	120	84°9'	84°9'	180	127°3'	127°3'	240	169°7'	169°7'	300	212°1'	212°1'
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 4 Points.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00 0	61	61-0	01-1	121	121-0	02-1	181	181-0	03-2	241	241-0	04-2
2	02-0	00 0	62	62-0	01-1	122	122-0	02-1	182	182-0	03-2	242	242-0	04-2
3	03-0	00-1	63	63-0	01-1	123	123-0	02-1	183	183-0	03-2	243	243-0	04-2
4	04-0	00-1	64	64-0	01-1	124	124-0	02-2	184	184-0	03-2	244	244-0	04-3
5	05-0	00-1	65	65-0	01-1	125	125-0	02-2	185	185-0	03-2	245	245-0	04-3
6	06-0	00-1	66	66-0	01-2	126	126-0	02-2	186	186-0	03-2	246	246-0	04-3
7	07-0	00-1	67	67-0	01-2	127	127-0	02-2	187	187-0	03-3	247	247-0	04-3
8	08-0	00-1	68	68-0	01-2	128	128-0	02-2	188	188-0	03-3	248	248-0	04-3
9	09-0	00-2	69	69-0	01-2	129	129-0	02-3	189	189-0	03-3	249	249-0	04-3
10	10-0	00-2	70	70-0	01-2	130	130-0	02-3	190	190-0	03-3	250	250-0	04-4
11	11-0	00-2	71	71-0	01-2	131	131-0	02-3	191	191-0	03-3	251	251-0	04-4
12	12-0	00-2	72	72-0	01-3	132	132-0	02-3	192	192-0	03-1	252	252-0	04-1
13	13-0	00-2	73	73-0	01-3	133	133-0	02-3	193	193-0	03-1	253	253-0	04-1
14	14-0	00-2	74	74-0	01-3	134	134-0	02-3	194	194-0	03-1	254	254-0	04-1
15	15-0	00-3	75	75-0	01-3	135	135-0	02-4	195	195-0	03-4	255	255-0	04-5
16	16-0	00-3	76	76-0	01-3	136	136-0	02-4	196	196-0	03-4	256	256-0	04-5
17	17-0	00-3	77	77-0	01-3	137	137-0	02-4	197	197-0	03-4	257	257-0	04-5
18	18-0	00-3	78	78-0	01-4	138	138-0	02-4	198	198-0	03-5	258	258-0	04-5
19	19-0	00-3	79	79-0	01-4	139	139-0	02-4	199	199-0	03-5	259	259-0	04-5
20	20-0	00-3	80	80-0	01-4	140	140-0	02-4	200	200-0	03-5	260	260-0	04-5
21	21-0	00-4	81	81-0	01-4	141	141-0	02-5	201	201-0	03-5	261	261-0	04-6
22	22-0	00-4	82	82-0	01-4	142	142-0	02-5	202	202-0	03-5	262	262-0	04-6
23	23-0	00-4	83	83-0	01-4	143	143-0	02-5	203	203-0	03-5	263	263-0	04-6
24	24-0	00-4	84	84-0	01-5	144	144-0	02-5	204	204-0	03-6	264	264-0	04-6
25	25-0	00-4	85	85-0	01-5	145	145-0	02-5	205	205-0	03-6	265	265-0	04-6
26	26-0	00-5	86	86-0	01-5	146	146-0	02-5	206	206-0	03-6	266	266-0	04-6
27	27-0	00-5	87	87-0	01-5	147	147-0	02-6	207	207-0	03-6	267	267-0	04-7
28	28-0	00-5	88	88-0	01-5	148	148-0	02-6	208	208-0	03-6	268	268-0	04-7
29	29-0	00-5	89	89-0	01-6	149	149-0	02-6	209	209-0	03-6	269	269-0	04-7
30	30-0	00-5	90	90-0	01-6	150	150-0	02-6	210	210-0	03-7	270	270-0	04-7
31	31-0	00-5	91	91-0	01-6	151	151-0	02-6	211	211-0	03-7	271	271-0	04-7
32	32-0	00-6	92	92-0	01-6	152	152-0	02-7	212	212-0	03-7	272	272-0	04-7
33	33-0	00-6	93	93-0	01-6	153	153-0	02-7	213	213-0	03-7	273	273-0	04-8
34	34-0	00-6	94	94-0	01-6	154	154-0	02-7	214	214-0	03-7	274	274-0	04-8
35	35-0	00-6	95	95-0	01-7	155	155-0	02-7	215	215-0	03-8	275	275-0	04-8
36	36-0	00-6	96	96-0	01-7	156	156-0	02-7	216	216-0	03-8	276	276-0	04-8
37	37-0	00-6	97	97-0	01-7	157	157-0	02-7	217	217-0	03-8	277	277-0	04-8
38	38-0	00-7	98	98-0	01-7	158	158-0	02-8	218	218-0	03-8	278	278-0	04-9
39	39-0	00-7	99	99-0	01-7	159	159-0	02-8	219	219-0	03-8	279	279-0	04-9
40	40-0	00-7	100	100-0	01-7	160	160-0	02-8	220	220-0	03-8	280	280-0	04-9
41	41-0	00-7	101	101-0	01-8	161	161-0	02-8	221	221-0	03-9	281	281-0	04-9
42	42-0	00-7	102	102-0	01-8	162	162-0	02-8	222	222-0	03-9	282	282-0	04-9
43	43-0	00-8	103	103-0	01-8	163	163-0	02-8	223	223-0	03-9	283	283-0	04-9
44	44-0	00-8	104	104-0	01-8	164	164-0	02-9	224	224-0	03-9	284	284-0	05-0
45	45-0	00-8	105	105-0	01-8	165	165-0	02-9	225	225-0	03-9	285	285-0	05-0
46	46-0	00-8	106	106-0	01-8	166	166-0	02-9	226	226-0	03-9	286	286-0	05-0
47	47-0	00-8	107	107-0	01-9	167	167-0	02-9	227	227-0	04-0	287	287-0	05-0
48	48-0	00-8	108	108-0	01-9	168	168-0	02-9	228	228-0	04-0	288	288-0	05-0
49	49-0	00-9	109	109-0	01-9	169	169-0	02-9	229	229-0	04-0	289	289-0	05-0
50	50-0	00-9	110	110-0	01-9	170	170-0	03-0	230	230-0	04-0	290	290-0	05-1
51	51-0	00-9	111	111-0	01-9	171	171-0	03-0	231	231-0	04-0	291	291-0	05-1
52	52-0	00-9	112	112-0	02-0	172	172-0	03-0	232	232-0	04-0	292	292-0	05-1
53	53-0	00-9	113	113-0	02-0	173	173-0	03-0	233	233-0	04-1	293	293-0	05-1
54	54-0	00-9	114	114-0	02-0	174	174-0	03-0	234	234-0	04-1	294	294-0	05-1
55	55-0	01-0	115	115-0	02-0	175	175-0	03-1	235	235-0	04-1	295	295-0	05-1
56	56-0	01-0	116	116-0	02-0	176	176-0	03-1	236	236-0	04-1	296	296-0	05-2
57	57-0	01-0	117	117-0	02-0	177	177-0	03-1	237	237-0	04-1	297	297-0	05-2
58	58-0	01-0	118	118-0	02-1	178	178-0	03-1	238	238-0	04-2	298	298-0	05-2
59	59-0	01-0	119	119-0	02-1	179	179-0	03-1	239	239-0	04-2	299	299-0	05-2
60	60-0	01-0	120	120-0	02-1	180	180-0	03-1	240	240-0	04-2	300	300-0	05-2
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 2°.

Dist.	Last	Dep.	Dist.	Last	Dep.	Dist.	Last	Dep.	Dist.	Last	Dep.	Dist.	Last	Dep.
1	01.0	00.0	61	61.0	02.1	121	120.9	01.2	181	180.9	00.8	241	240.9	08.4
2	02.0	00.1	62	62.0	02.2	122	121.9	01.3	182	181.9	00.9	242	241.9	08.4
3	03.0	00.1	63	63.0	02.2	123	122.9	01.3	183	182.9	00.9	243	242.9	08.5
4	04.0	00.1	64	64.0	02.2	124	123.9	01.3	184	183.9	00.9	244	243.9	08.5
5	05.0	00.2	65	65.0	02.3	125	124.9	01.4	185	184.9	00.9	245	244.9	08.6
6	06.0	00.2	66	66.0	02.3	126	125.9	01.4	186	185.9	00.9	246	245.9	08.6
7	07.0	00.2	67	67.0	02.3	127	126.9	01.4	187	186.9	00.9	247	246.8	08.6
8	08.0	00.3	68	68.0	02.4	128	127.9	01.5	188	187.9	00.6	248	247.8	08.7
9	09.0	00.3	69	69.0	02.4	129	128.9	01.5	189	188.9	00.6	249	248.8	08.7
10	10.0	00.3	70	70.0	02.4	130	129.9	01.5	190	189.9	00.6	250	249.8	08.7
11	11.0	00.4	71	71.0	02.5	131	130.9	01.6	191	190.9	00.7	251	250.8	08.8
12	12.0	00.4	72	72.0	02.5	132	131.9	01.6	192	191.9	00.7	252	251.9	08.8
13	13.0	00.5	73	73.0	02.5	133	132.9	01.6	193	192.9	00.7	253	252.8	08.8
14	14.0	00.5	74	74.0	02.6	134	133.9	01.7	194	193.9	00.8	254	253.8	08.9
15	15.0	00.5	75	75.0	02.6	135	134.9	01.7	195	194.9	00.8	255	254.8	08.9
16	16.0	00.6	76	76.0	02.7	136	135.9	01.7	196	195.9	00.8	256	255.8	08.9
17	17.0	00.6	77	77.0	02.7	137	136.9	01.8	197	196.9	00.9	257	256.8	09.0
18	18.0	00.6	78	78.0	02.7	138	137.9	01.8	198	197.9	00.9	258	257.8	09.0
19	19.0	00.7	79	79.0	02.8	139	138.9	01.9	199	198.9	00.9	259	258.8	09.0
20	20.0	00.7	80	80.0	02.8	140	139.9	01.9	200	199.9	07.0	260	259.8	09.1
21	21.0	00.7	81	81.0	02.8	141	140.9	01.9	201	200.9	07.0	261	260.8	09.1
22	22.0	00.8	82	82.0	02.9	142	141.9	02.0	202	201.9	07.0	262	261.8	09.1
23	23.0	00.8	83	83.0	02.9	143	142.9	02.0	203	202.9	07.1	263	262.8	09.2
24	24.0	00.8	84	84.0	02.9	144	143.9	02.0	204	203.9	07.1	264	263.8	09.2
25	25.0	00.9	85	85.0	03.0	145	144.9	02.1	205	204.9	07.2	265	264.8	09.2
26	26.0	00.9	86	86.0	03.0	146	145.9	02.1	206	205.9	07.2	266	265.8	09.3
27	27.0	00.9	87	87.0	03.0	147	146.9	02.1	207	206.9	07.2	267	266.8	09.3
28	28.0	01.0	88	88.0	03.1	148	147.9	02.2	208	207.9	07.3	268	267.8	09.4
29	29.0	01.0	89	89.0	03.1	149	148.9	02.2	209	208.9	07.3	269	268.8	09.4
30	30.0	01.0	90	90.0	03.1	150	149.9	02.2	210	209.9	07.3	270	269.8	09.4
31	31.0	01.1	91	91.0	03.2	151	150.9	02.3	211	210.9	07.4	271	270.8	09.5
32	32.0	01.1	92	92.0	03.2	152	151.9	02.3	212	211.9	07.4	272	271.8	09.5
33	33.0	01.2	93	93.0	03.2	153	152.9	02.3	213	212.9	07.4	273	272.8	09.5
34	34.0	01.2	94	94.0	03.3	154	153.9	02.4	214	213.9	07.5	274	273.8	09.6
35	35.0	01.2	95	95.0	03.3	155	154.9	02.4	215	214.9	07.5	275	274.8	09.6
36	36.0	01.3	96	96.0	03.4	156	155.9	02.5	216	215.9	07.5	276	275.8	09.6
37	37.0	01.3	97	97.0	03.4	157	156.9	02.5	217	216.9	07.6	277	276.8	09.7
38	38.0	01.3	98	98.0	03.4	158	157.9	02.5	218	217.9	07.6	278	277.8	09.7
39	39.0	01.4	99	99.0	03.5	159	158.9	02.5	219	218.9	07.6	279	278.8	09.7
40	40.0	01.4	100	99.9	03.5	160	159.9	02.6	220	219.9	07.7	280	279.8	09.8
41	41.0	01.4	101	100.9	03.5	161	160.9	02.6	221	220.9	07.7	281	280.8	09.8
42	42.0	01.5	102	101.9	03.6	162	161.9	02.7	222	221.9	07.7	282	281.8	09.8
43	43.0	01.5	103	102.9	03.6	163	162.9	02.7	223	222.9	07.8	283	282.8	09.9
44	44.0	01.5	104	103.9	03.6	164	163.9	02.7	224	223.9	07.8	284	283.8	09.9
45	45.0	01.6	105	104.9	03.7	165	164.9	02.8	225	224.9	07.9	285	284.8	09.9
46	46.0	01.6	106	105.9	03.7	166	165.9	02.8	226	225.9	07.9	286	285.8	10.0
47	47.0	01.6	107	106.9	03.7	167	166.9	02.8	227	226.9	07.9	287	286.8	10.0
48	48.0	01.7	108	107.9	03.8	168	167.9	02.9	228	227.9	08.0	288	287.8	10.1
49	49.0	01.7	109	108.9	03.8	169	168.9	02.9	229	228.9	08.0	289	288.8	10.1
50	50.0	01.7	110	109.9	03.8	170	169.9	02.9	230	229.9	08.0	290	289.8	10.1
51	51.0	01.8	111	110.9	03.9	171	170.9	03.0	231	230.9	08.1	291	290.8	10.2
52	52.0	01.8	112	111.9	03.9	172	171.9	03.0	232	231.9	08.1	292	291.8	10.2
53	53.0	01.8	113	112.9	03.9	173	172.9	03.0	233	232.9	08.1	293	292.8	10.2
54	54.0	01.9	114	113.9	04.0	174	173.9	03.1	234	233.9	08.2	294	293.8	10.3
55	55.0	01.9	115	114.9	04.0	175	174.9	03.1	235	234.9	08.2	295	294.8	10.3
56	56.0	02.0	116	115.9	04.0	176	175.9	03.1	236	235.9	08.2	296	295.8	10.3
57	57.0	02.0	117	116.9	04.1	177	176.9	03.2	237	236.9	08.3	297	296.8	10.4
58	58.0	02.0	118	117.9	04.1	178	177.9	03.2	238	237.9	08.3	298	297.8	10.4
59	59.0	02.1	119	118.9	04.2	179	178.9	03.2	239	238.9	08.3	299	298.8	10.4
60	60.0	02.1	120	119.9	04.2	180	179.9	03.3	240	239.9	08.4	300	299.8	10.5
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	60-9	03-2	121	120-8	06-3	181	180-8	09-5	241	240-7	12-6
2	02-0	00-1	62	61-9	03-2	122	121-8	06-4	182	181-8	09-5	242	241-7	12-7
3	03-0	00-2	63	62-9	03-3	123	122-8	06-4	183	182-7	09-6	243	242-7	12-7
4	04-0	00-2	64	63-9	03-3	124	123-8	06-5	184	183-7	09-6	244	243-7	12-8
5	05-0	00-3	65	64-9	03-4	125	124-8	06-5	185	184-7	09-7	245	244-7	12-8
6	06-0	00-3	66	65-9	03-5	126	125-8	06-6	186	185-7	09-7	246	245-7	12-9
7	07-0	00-4	67	66-9	03-5	127	126-8	06-6	187	186-7	09-8	247	246-7	12-9
8	08-0	00-4	68	67-9	03-6	128	127-8	06-7	188	187-7	09-8	248	247-7	13-0
9	09-0	00-5	69	68-9	03-6	129	128-8	06-8	189	188-7	09-9	249	248-7	13-0
10	10-0	00-5	70	69-9	03-7	130	129-8	06-8	190	189-7	09-9	250	249-7	13-1
11	11-0	00-6	71	70-9	03-7	131	130-8	06-9	191	190-7	10-0	251	250-7	13-1
12	12-0	00-6	72	71-9	03-8	132	131-8	06-9	192	191-7	10-0	252	251-7	13-2
13	13-0	00-7	73	72-9	03-8	133	132-8	7-0	193	192-7	10-1	253	252-7	13-2
14	14-0	00-7	74	73-9	03-9	134	133-8	7-0	194	193-7	10-2	254	253-7	13-3
15	15-0	00-8	75	74-9	03-9	135	134-8	07-1	195	194-7	10-2	255	254-7	13-3
16	16-0	00-8	76	75-9	04-0	136	135-8	07-1	196	195-7	10-3	256	255-6	13-4
17	17-0	00-9	77	76-9	04-0	137	136-8	07-2	197	196-7	10-3	257	256-6	13-5
18	18-0	00-9	78	77-9	04-1	138	137-8	07-2	198	197-7	10-4	258	257-6	13-5
19	19-0	01-0	79	78-9	04-1	139	138-8	07-3	199	198-7	10-4	259	258-6	13-6
20	20-0	01-0	80	79-9	04-2	140	139-8	07-3	200	199-7	10-5	260	259-6	13-6
21	21-0	01-1	81	80-9	04-2	141	140-8	07-4	201	200-7	10-5	261	260-6	13-7
22	22-0	01-1	82	81-9	04-3	142	141-8	07-4	202	201-7	10-6	262	261-6	13-7
23	23-0	01-2	83	82-9	04-3	143	142-8	07-5	203	202-7	10-6	263	262-6	13-8
24	24-0	01-3	84	83-9	04-4	144	143-8	07-5	204	203-7	10-7	264	263-6	13-8
25	25-0	01-3	85	84-9	04-4	145	144-8	07-6	205	204-7	10-7	265	264-6	13-9
26	26-0	01-4	86	85-9	04-5	146	145-8	07-6	206	205-7	10-8	266	265-6	13-9
27	27-0	01-4	87	86-9	04-6	147	146-8	07-7	207	206-7	10-8	267	266-6	14-0
28	28-0	01-5	88	87-9	04-6	148	147-8	07-7	208	207-7	10-9	268	267-6	14-0
29	29-0	01-5	89	88-9	04-7	149	148-8	07-8	209	208-7	10-9	269	268-6	14-1
30	30-0	01-6	90	89-9	04-7	150	149-8	07-9	210	209-7	11-0	270	269-6	14-1
31	31-0	01-6	91	90-9	04-8	151	150-8	07-9	211	210-7	11-0	271	270-6	14-2
32	32-0	01-7	92	91-9	04-8	152	151-8	08-0	212	211-7	11-1	272	271-6	14-2
33	33-0	01-7	93	92-9	04-9	153	152-8	08-0	213	212-7	11-1	273	272-6	14-3
34	34-0	01-8	94	93-9	04-9	154	153-8	08-1	214	213-7	11-2	274	273-6	14-3
35	35-0	01-8	95	94-9	05-0	155	154-8	08-1	215	214-7	11-3	275	274-6	14-4
36	36-0	01-9	96	95-9	05-0	156	155-8	08-2	216	215-7	11-3	276	275-6	14-4
37	37-0	01-9	97	96-9	05-1	157	156-8	08-3	217	216-7	11-4	277	276-6	14-5
38	38-0	02-0	98	97-9	05-1	158	157-8	08-3	218	217-7	11-4	278	277-6	14-5
39	39-0	02-0	99	98-9	05-2	159	158-8	08-3	219	218-7	11-5	279	278-6	14-6
40	40-0	02-1	100	99-9	05-2	160	159-8	08-4	220	219-7	11-5	280	279-6	14-7
41	40-9	02-1	101	100-9	05-3	161	160-8	08-4	221	220-7	11-6	281	280-6	14-7
42	41-9	02-2	102	101-9	05-3	162	161-8	08-5	222	221-7	11-6	282	281-6	14-8
43	42-9	02-3	103	102-9	05-4	163	162-8	08-5	223	222-7	11-7	283	282-6	14-8
44	43-9	02-3	104	103-9	05-4	164	163-8	08-6	224	223-7	11-7	284	283-6	14-9
45	44-9	02-4	105	104-9	05-5	165	164-8	08-6	225	224-7	11-8	285	284-6	14-9
46	45-9	02-4	106	105-9	05-5	166	165-8	08-7	226	225-7	11-8	286	285-6	15-0
47	46-9	02-5	107	106-9	05-6	167	166-8	08-7	227	226-7	11-9	287	286-6	15-0
48	47-9	02-5	108	107-9	05-7	168	167-8	08-8	228	227-7	11-9	288	287-6	15-1
49	48-9	02-6	109	108-9	05-7	169	168-8	08-8	229	228-7	12-0	289	288-6	15-1
50	49-9	02-6	110	109-8	05-8	170	169-8	08-9	230	229-7	12-0	290	289-6	15-2
51	50-9	02-7	111	110-8	05-8	171	170-8	08-9	231	230-7	12-1	291	290-6	15-2
52	51-9	02-7	112	111-8	05-9	172	171-8	09-0	232	231-7	12-1	292	291-6	15-3
53	52-9	02-8	113	112-8	05-9	173	172-8	09-1	233	232-7	12-2	293	292-6	15-3
54	53-9	02-8	114	113-8	06-0	174	173-8	09-1	234	233-7	12-2	294	293-6	15-4
55	54-9	02-9	115	114-8	06-0	175	174-8	09-2	235	234-7	12-3	295	294-6	15-4
56	55-9	02-9	116	115-8	06-1	176	175-8	09-2	236	235-7	12-4	296	295-6	15-5
57	56-9	03-0	117	116-8	06-1	177	176-8	09-3	237	236-7	12-4	297	296-6	15-5
58	57-9	03-0	118	117-8	06-2	178	177-8	09-3	238	237-7	12-5	298	297-6	15-6
59	58-9	03-1	119	118-8	06-2	179	178-8	09-4	239	238-7	12-5	299	298-6	15-6
60	59-9	03-1	120	119-8	06-3	180	179-8	09-4	240	239-7	12-6	300	299-6	15-7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For ϵ' .

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	60-9	04-3	121	120-7	08-4	181	180-6	12-6	241	240-4	18-6
2	02-0	00-1	62	61-8	04-3	122	121-7	08-5	182	181-6	12-7	242	241-4	18-7
3	03-0	00-2	63	62-8	04-4	123	122-7	08-6	183	182-6	12-8	243	242-4	17-0
4	04-0	00-2	64	63-8	04-5	124	123-7	08-6	184	183-6	12-8	244	243-4	17-0
5	05-0	00-2	65	64-8	04-5	125	124-7	08-7	185	184-5	12-9	245	244-4	17-1
6	06-0	00-4	66	65-8	04-6	126	125-7	08-8	186	185-5	13-0	246	245-4	17-2
7	07-0	00-5	67	66-8	04-7	127	126-7	08-9	187	186-5	13-0	247	246-4	17-2
8	08-0	00-6	68	67-8	04-7	128	127-7	08-9	188	187-5	13-1	248	247-4	17-3
9	09-0	00-6	69	68-8	04-8	129	128-7	09-0	189	188-5	13-2	249	248-4	17-4
10	10-0	00-7	70	69-8	04-9	130	129-7	09-1	190	189-5	13-2	250	249-4	17-4
11	11-0	00-8	71	70-8	05-0	131	130-7	09-1	191	190-5	13-3	251	250-4	17-5
12	12-0	00-8	72	71-8	05-0	132	131-7	09-2	192	191-5	13-4	252	251-4	17-6
13	13-0	00-9	73	72-8	05-1	133	132-7	09-3	193	192-5	13-5	253	252-4	17-6
14	14-0	01-0	74	73-8	05-2	134	133-7	09-3	194	193-5	13-5	254	253-4	17-7
15	15-0	01-0	75	74-8	05-2	135	134-7	09-4	195	194-5	13-6	255	254-4	17-8
16	16-0	01-1	76	75-8	05-3	136	135-7	09-5	196	195-5	13-7	256	255-4	17-9
17	17-0	01-2	77	76-8	05-4	137	136-7	09-6	197	196-5	13-7	257	256-4	17-9
18	18-0	01-3	78	77-8	05-4	138	137-7	09-6	198	197-6	13-8	258	257-4	18-0
19	19-0	01-3	79	78-8	05-5	139	138-7	09-7	199	198-5	13-9	259	258-4	18-1
20	20-0	01-4	80	79-8	05-6	140	139-7	09-8	200	199-5	14-0	260	259-4	18-1
21	20-9	01-5	81	80-8	05-7	141	140-7	09-8	201	200-6	14-0	261	260-4	18-2
22	21-9	01-5	82	81-8	05-7	142	141-7	09-9	202	201-5	14-1	262	261-4	18-3
23	22-9	01-6	83	82-8	05-8	143	142-7	10-0	203	202-5	14-2	263	262-4	18-3
24	23-9	01-7	84	83-8	05-9	144	143-8	10-0	204	203-5	14-2	264	263-4	18-4
25	24-9	01-7	85	84-8	05-9	145	144-8	10-1	205	204-5	14-3	265	264-4	18-5
26	25-9	01-8	86	85-8	06-0	146	145-8	10-2	206	205-5	14-4	266	265-4	18-6
27	26-9	01-9	87	86-8	06-1	147	146-8	10-3	207	206-5	14-4	267	266-4	18-6
28	27-9	02-0	88	87-8	06-1	148	147-8	10-3	208	207-5	14-5	268	267-4	18-7
29	28-9	02-0	89	88-8	06-2	149	148-8	10-4	209	208-5	14-6	269	268-4	18-8
30	29-9	02-1	90	89-8	06-3	150	149-8	10-5	210	209-5	14-6	270	269-4	18-8
31	30-9	02-2	91	90-8	06-3	151	150-8	10-5	211	210-5	14-7	271	270-4	18-9
32	31-9	02-3	92	91-8	06-4	152	151-8	10-6	212	211-5	14-8	272	271-4	19-0
33	32-9	02-3	93	92-8	06-5	153	152-8	10-7	213	212-5	14-9	273	272-4	19-0
34	33-9	02-4	94	93-8	06-6	154	153-8	10-7	214	213-5	14-9	274	273-4	19-1
35	34-9	02-4	95	94-8	06-6	155	154-8	10-8	215	214-5	15-0	275	274-4	19-2
36	35-9	02-5	96	95-8	06-7	156	155-8	10-9	216	215-5	15-1	276	275-4	19-3
37	36-9	02-6	97	96-8	06-8	157	156-8	11-0	217	216-5	15-1	277	276-4	19-3
38	37-9	02-7	98	97-8	06-8	158	157-8	11-0	218	217-5	15-2	278	277-4	19-4
39	38-9	02-7	99	98-8	06-9	159	158-8	11-1	219	218-5	15-3	279	278-4	19-5
40	39-9	02-8	100	99-8	07-0	160	159-8	11-2	220	219-5	15-3	280	279-4	19-5
41	40-9	02-9	101	100-8	07-0	161	160-8	11-2	221	220-5	15-4	281	280-4	19-6
42	41-9	02-9	102	101-8	07-1	162	161-8	11-3	222	221-5	15-5	282	281-4	19-7
43	42-9	03-0	103	102-7	07-2	163	162-8	11-4	223	222-5	15-6	283	282-4	19-7
44	43-9	03-1	104	103-7	07-3	164	163-8	11-4	224	223-5	15-6	284	283-4	19-8
45	44-9	03-1	105	104-7	07-3	165	164-8	11-5	225	224-5	15-7	285	284-4	19-9
46	45-9	03-2	106	105-7	07-4	166	165-8	11-6	226	225-4	15-8	286	285-4	20-0
47	46-9	03-3	107	106-7	07-5	167	166-8	11-6	227	226-4	15-8	287	286-4	20-0
48	47-9	03-3	108	107-7	07-5	168	167-8	11-7	228	227-4	15-9	288	287-4	20-1
49	48-9	03-4	109	108-7	07-6	169	168-8	11-8	229	228-4	16-0	289	288-4	20-2
50	49-9	03-5	110	109-7	07-7	170	169-8	11-9	230	229-4	16-0	290	289-4	20-3
51	50-9	03-6	111	110-7	07-7	171	170-8	11-9	231	230-4	16-1	291	290-4	20-3
52	51-9	03-6	112	111-7	07-8	172	171-8	12-0	232	231-4	16-2	292	291-4	20-4
53	52-9	03-7	113	112-7	07-9	173	172-8	12-1	233	232-4	16-2	293	292-4	20-4
54	53-9	03-8	114	113-7	08-0	174	173-8	12-1	234	233-4	16-3	294	293-4	20-5
55	54-9	03-8	115	114-7	08-0	175	174-8	12-2	235	234-4	16-4	295	294-4	20-6
56	55-9	03-9	116	115-7	08-1	176	175-8	12-3	236	235-4	16-5	296	295-4	20-6
57	56-9	04-0	117	116-7	08-2	177	176-8	12-3	237	236-4	16-5	297	296-4	20-7
58	57-9	04-0	118	117-7	08-2	178	177-8	12-4	238	237-4	16-6	298	297-4	20-8
59	58-9	04-1	119	118-7	08-3	179	178-8	12-5	239	238-4	16-7	299	298-4	20-9
60	59-9	04-2	120	119-7	08-4	180	179-8	12-6	240	239-4	16-7	300	299-4	20-9
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	00-8	05-3	121	120-5	10-6	181	180-3	15-8	241	240-1	21-0
2	02-0	00-2	62	01-8	05-4	122	121-5	10-6	182	181-3	15-9	242	241-1	21-1
3	03-0	00-3	63	02-8	05-5	123	122-5	10-7	183	182-3	15-9	243	242-1	21-2
4	04-0	00-3	64	03-8	05-6	124	123-5	10-8	184	183-3	16-0	244	243-1	21-3
5	05-0	00-4	65	04-8	05-7	125	124-5	10-9	185	184-3	16-1	245	244-1	21-4
6	06-0	00-5	66	05-7	05-8	126	125-5	11-0	186	185-3	16-2	246	245-1	21-4
7	07-0	00-6	67	06-7	05-8	127	126-5	11-1	187	186-3	16-3	247	246-1	21-5
8	08-0	00-7	68	07-7	05-9	128	127-5	11-2	188	187-3	16-4	248	247-1	21-6
9	09-0	00-8	69	08-7	06-0	129	128-5	11-2	189	188-3	16-5	249	248-1	21-7
10	10-0	00-9	70	09-7	06-1	130	129-5	11-3	190	189-3	16-6	250	249-0	21-8
11	11-0	01-0	71	10-7	06-2	131	130-5	11-4	191	190-3	16-6	251	250-0	21-9
12	12-0	01-0	72	11-7	06-3	132	131-5	11-5	192	191-3	16-7	252	251-0	22-0
13	13-0	01-1	73	12-7	06-4	133	132-5	11-6	193	192-3	16-8	253	252-0	22-1
14	13-9	01-2	74	13-7	06-4	134	133-5	11-7	194	193-3	16-9	254	253-0	22-1
15	14-9	01-3	75	14-7	06-5	135	134-5	11-8	195	194-3	17-0	255	254-0	22-2
16	15-9	01-4	76	15-7	06-6	136	135-5	11-9	196	195-3	17-1	256	255-0	22-3
17	16-9	01-5	77	16-7	06-7	137	136-5	11-9	197	196-3	17-2	257	256-0	22-4
18	17-9	01-6	78	17-7	06-8	138	137-5	12-0	198	197-2	17-3	258	257-0	22-5
19	18-9	01-7	79	18-7	06-9	139	138-5	12-1	199	198-2	17-3	259	258-0	22-6
20	19-9	01-7	80	19-7	07-0	140	139-5	12-2	200	199-2	17-4	260	259-0	22-7
21	20-9	01-8	81	20-7	07-1	141	140-5	12-3	201	200-2	17-5	261	260-0	22-7
22	21-9	01-9	82	21-7	07-1	142	141-5	12-4	202	201-2	17-6	262	261-0	22-8
23	22-9	02-0	83	22-7	07-2	143	142-5	12-5	203	202-2	17-7	263	262-0	22-9
24	23-9	02-1	84	23-7	07-3	144	143-5	12-6	204	203-2	17-8	264	263-0	23-0
25	24-9	02-2	85	24-7	07-4	145	144-4	12-6	205	204-2	17-9	265	264-0	23-1
26	25-9	02-3	86	25-7	07-5	146	145-4	12-7	206	205-2	18-0	266	265-0	23-2
27	26-9	02-4	87	26-7	07-6	147	146-4	12-8	207	206-2	18-0	267	266-0	23-3
28	27-9	02-4	88	27-7	07-7	148	147-4	12-9	208	207-2	18-1	268	267-0	23-4
29	28-9	02-5	89	28-7	07-8	149	148-4	13-0	209	208-2	18-2	269	268-0	23-4
30	29-9	02-6	90	29-7	07-8	150	149-4	13-1	210	209-2	18-3	270	269-0	23-5
31	30-9	02-7	91	30-7	07-9	151	150-4	13-2	211	210-2	18-4	271	270-0	23-6
32	31-9	02-8	92	31-6	08-0	152	151-4	13-2	212	211-2	18-5	272	271-0	23-7
33	32-9	02-9	93	32-6	08-1	153	152-4	13-3	213	212-2	18-6	273	272-0	23-8
34	33-9	03-0	94	33-6	08-2	154	153-4	13-4	214	213-2	18-7	274	273-0	23-9
35	34-9	03-1	95	34-6	08-3	155	154-4	13-5	215	214-2	18-7	275	274-0	24-0
36	35-9	03-1	96	35-6	08-4	156	155-4	13-6	216	215-2	18-8	276	274-9	24-1
37	36-9	03-2	97	36-6	08-5	157	156-4	13-7	217	216-2	18-9	277	275-9	24-1
38	37-9	03-3	98	37-6	08-5	158	157-4	13-8	218	217-2	19-0	278	276-9	24-2
39	38-9	03-4	99	38-6	08-6	159	158-4	13-9	219	218-2	19-1	279	277-9	24-3
40	39-9	03-5	100	39-6	08-7	160	159-4	13-9	220	219-2	19-2	280	278-9	24-4
41	40-8	03-6	101	40-6	08-8	161	160-4	14-0	221	220-2	19-3	281	279-9	24-5
42	41-8	03-7	102	41-6	08-9	162	161-4	14-1	222	221-2	19-3	282	280-9	24-6
43	42-8	03-7	103	42-6	09-0	163	162-4	14-2	223	222-2	19-4	283	281-9	24-7
44	43-8	03-8	104	43-6	09-1	164	163-4	14-3	224	223-1	19-5	284	282-9	24-8
45	44-8	03-9	105	44-6	09-2	165	164-4	14-4	225	224-1	19-6	285	283-9	24-8
46	45-8	04-0	106	45-6	09-3	166	165-4	14-5	226	225-1	19-7	286	284-9	24-9
47	46-8	04-1	107	46-6	09-3	167	166-4	14-6	227	226-1	19-8	287	285-9	25-0
48	47-8	04-2	108	47-6	09-4	168	167-4	14-6	228	227-1	19-9	288	286-9	25-1
49	48-8	04-3	109	48-6	09-5	169	168-4	14-7	229	228-1	20-0	289	287-9	25-2
50	49-8	04-4	110	49-6	09-6	170	169-4	14-8	230	229-1	20-0	290	288-9	25-3
51	50-8	04-4	111	50-6	09-7	171	170-3	14-9	231	230-1	20-1	291	289-9	25-4
52	51-8	04-5	112	51-6	09-8	172	171-3	15-0	232	231-1	20-2	292	290-9	25-4
53	52-8	04-6	113	52-6	09-8	173	172-3	15-1	233	232-1	20-3	293	291-9	25-5
54	53-8	04-7	114	53-6	09-9	174	173-3	15-2	234	233-1	20-4	294	292-9	25-6
55	54-8	04-8	115	54-6	10-0	175	174-3	15-3	235	234-1	20-5	295	293-9	25-7
56	55-8	04-9	116	55-6	10-1	176	175-3	15-3	236	235-1	20-6	296	294-9	25-8
57	56-8	05-0	117	56-6	10-2	177	176-3	15-4	237	236-1	20-7	297	295-9	25-9
58	57-8	05-1	118	57-6	10-3	178	177-3	15-5	238	237-1	20-7	298	296-9	26-0
59	58-8	05-1	119	58-6	10-4	179	178-3	15-6	239	238-1	20-8	299	297-9	26-1
60	59-8	05-2	120	59-6	10-5	180	179-3	15-7	240	239-1	20-9	300	298-9	26-1
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 6°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	60-7	06-4	121	120-3	12-6	181	180-0	18-9	241	239-7	25-2
2	02-0	00-2	62	61-7	06-5	122	121-3	12-8	182	181-0	19-0	242	240-7	25-3
3	03-0	00-3	63	62-7	06-6	123	122-3	12-9	183	182-0	19-1	243	241-7	25-4
4	04-0	00-4	64	63-6	06-7	124	123-3	13-0	184	183-0	19-2	244	242-7	25-5
5	05-0	00-5	65	64-6	06-8	125	124-3	13-1	185	184-0	19-3	245	243-7	25-6
6	06-0	00-6	66	65-6	06-9	126	125-3	13-2	186	185-0	19-4	246	244-7	25-7
7	07-0	00-7	67	66-6	07-0	127	126-3	13-3	187	186-0	19-5	247	245-6	25-8
8	08-0	00-8	68	67-6	07-1	128	127-3	13-4	188	187-0	19-7	248	246-6	25-9
9	09-0	00-9	69	68-6	07-2	129	128-3	13-5	189	188-0	19-8	249	247-6	26-0
10	09-9	01-0	70	69-6	07-3	130	129-3	13-6	190	189-0	19-9	250	248-6	26-1
11	10-9	01-1	71	70-6	07-4	131	130-3	13-7	191	190-0	20-0	251	249-6	26-2
12	11-9	01-2	72	71-6	07-5	132	131-3	13-8	192	190-9	20-1	252	250-6	26-3
13	12-9	01-4	73	72-6	07-6	133	132-3	13-9	193	191-9	20-2	253	251-6	26-4
14	13-9	01-5	74	73-6	07-7	134	133-3	14-0	194	192-9	20-3	254	252-6	26-5
15	14-9	01-6	75	74-6	07-8	135	134-3	14-1	195	193-9	20-4	255	253-6	26-7
16	15-9	01-7	76	75-6	07-9	136	135-3	14-2	196	194-9	20-5	256	254-6	26-8
17	16-9	01-8	77	76-6	08-0	137	136-2	14-3	197	195-9	20-6	257	255-6	26-9
18	17-9	01-9	78	77-6	08-1	138	137-2	14-4	198	196-9	20-7	258	256-6	27-0
19	18-9	02-0	79	78-6	08-2	139	138-2	14-5	199	197-9	20-8	259	257-6	27-1
20	19-9	02-1	80	79-6	08-3	140	139-2	14-6	200	198-9	20-9	260	258-6	27-2
21	20-9	02-2	81	80-6	08-5	141	140-2	14-7	201	199-9	21-0	261	259-6	27-3
22	21-9	02-3	82	81-6	08-6	142	141-2	14-8	202	200-9	21-1	262	260-6	27-4
23	22-9	02-4	83	82-5	08-7	143	142-2	14-9	203	201-9	21-2	263	261-6	27-5
24	23-9	02-5	84	83-5	08-8	144	143-2	15-1	204	202-9	21-3	264	262-6	27-6
25	24-9	02-6	85	84-5	08-9	145	144-2	15-2	205	203-9	21-4	265	263-6	27-7
26	25-9	02-7	86	85-5	09-0	146	145-2	15-3	206	204-9	21-5	266	264-6	27-8
27	26-9	02-8	87	86-5	09-1	147	146-2	15-4	207	205-9	21-6	267	265-5	27-9
28	27-8	02-9	88	87-5	09-2	148	147-2	15-5	208	206-9	21-7	268	266-5	28-0
29	28-8	03-0	89	88-5	09-3	149	148-2	15-6	209	207-9	21-8	269	267-5	28-1
30	29-8	03-1	90	89-5	09-4	150	149-2	15-7	210	208-8	21-9	270	268-5	28-2
31	30-8	03-2	91	90-5	09-5	151	150-2	15-8	211	209-8	22-1	271	269-5	28-3
32	31-8	03-3	92	91-5	09-6	152	151-2	15-9	212	210-8	22-2	272	270-5	28-4
33	32-8	03-4	93	92-5	09-7	153	152-2	16-0	213	211-8	22-3	273	271-5	28-5
34	33-8	03-6	94	93-5	09-8	154	153-2	16-1	214	212-8	22-4	274	272-5	28-6
35	34-8	03-7	95	94-5	09-9	155	154-2	16-2	215	213-8	22-5	275	273-5	28-7
36	35-8	03-8	96	95-5	10-0	156	155-1	16-3	216	214-8	22-6	276	274-5	28-8
37	36-8	03-9	97	96-5	10-1	157	156-1	16-4	217	215-8	22-7	277	275-5	28-9
38	37-8	04-0	98	97-5	10-2	158	157-1	16-5	218	216-8	22-8	278	276-5	29-1
39	38-8	04-1	99	98-5	10-3	159	158-1	16-6	219	217-8	22-9	279	277-5	29-2
40	39-8	04-2	100	99-5	10-5	160	159-1	16-7	220	218-8	23-0	280	278-5	29-3
41	40-8	04-3	101	100-4	10-6	161	160-1	16-8	221	219-8	23-1	281	279-5	29-4
42	41-8	04-4	102	101-4	10-7	162	161-1	16-9	222	220-8	23-2	282	280-5	29-5
43	42-8	04-5	103	102-4	10-8	163	162-1	17-0	223	221-8	23-3	283	281-4	29-6
44	43-8	04-6	104	103-4	10-9	164	163-1	17-1	224	222-8	23-4	284	282-4	29-7
45	44-8	04-7	105	104-4	11-0	165	164-1	17-2	225	223-8	23-5	285	283-4	29-8
46	45-7	04-8	106	105-4	11-1	166	165-1	17-4	226	224-8	23-6	286	284-4	29-9
47	46-7	04-9	107	106-4	11-2	167	166-1	17-5	227	225-8	23-7	287	285-4	30-0
48	47-7	05-0	108	107-4	11-3	168	167-1	17-6	228	226-8	23-8	288	286-4	30-1
49	48-7	05-1	109	108-4	11-4	169	168-1	17-7	229	227-7	23-9	289	287-4	30-2
50	49-7	05-2	110	109-4	11-5	170	169-1	17-8	230	228-7	24-0	290	288-4	30-3
51	50-7	05-3	111	110-4	11-6	171	170-1	17-9	231	229-7	24-1	291	289-4	30-4
52	51-7	05-4	112	111-4	11-7	172	171-1	18-0	232	230-7	24-2	292	290-4	30-5
53	52-7	05-5	113	112-4	11-8	173	172-1	18-1	233	231-7	24-3	293	291-4	30-6
54	53-7	05-6	114	113-4	11-9	174	173-0	18-2	234	232-7	24-3	294	292-4	30-7
55	54-7	05-7	115	114-4	12-0	175	174-0	18-3	235	233-7	24-3	295	293-4	30-8
56	55-7	05-9	116	115-4	12-1	176	175-0	18-4	236	234-7	24-7	296	294-4	30-9
57	56-7	06-0	117	116-4	12-2	177	176-0	18-5	237	235-7	24-8	297	295-4	31-0
58	57-7	06-1	118	117-4	12-3	178	177-0	18-6	238	236-7	24-9	298	296-4	31-1
59	58-7	06-2	119	118-3	12-4	179	178-0	18-7	239	237-7	25-0	299	297-4	31-2
60	59-7	06-3	120	119-3	12-5	180	179-0	18-8	240	238-7	25-1	300	298-4	31-4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 7°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-1	61	60-5	07-4	121	120-1	14-7	181	179-7	22-1	241	238-2	29-4
2	02-0	00-2	62	61-5	07-6	122	121-1	14-9	182	180-6	22-2	242	240-2	29-5
3	03-0	00-4	63	62-5	07-7	123	122-1	15-0	183	181-6	22-3	243	241-2	29-6
4	04-0	00-5	64	63-5	07-8	124	123-1	15-1	184	182-6	22-4	244	242-2	29-7
5	05-0	00-6	65	64-5	07-9	125	124-1	15-2	185	183-6	22-5	245	243-2	29-9
6	06-0	00-7	66	65-5	08-0	126	125-1	15-4	186	184-6	22-7	246	244-2	30-0
7	06-9	00-9	67	66-5	08-2	127	126-1	15-5	187	185-6	22-8	247	245-2	30-1
8	07-9	01-0	68	67-5	08-3	128	127-0	15-6	188	186-6	22-9	248	246-2	30-2
9	08-9	01-1	69	68-5	08-4	129	128-0	15-7	189	187-6	23-0	249	247-1	30-3
10	09-9	01-2	70	69-5	08-5	130	129-0	15-8	190	188-6	23-2	250	248-1	30-5
11	10-9	01-3	71	70-5	08-7	131	130-0	16-0	191	189-6	23-3	251	249-1	30-6
12	11-9	01-5	72	71-5	08-8	132	131-0	16-1	192	190-6	23-4	252	250-1	30-7
13	12-9	01-6	73	72-5	08-9	133	132-0	16-2	193	191-6	23-5	253	251-1	30-8
14	13-9	01-7	74	73-4	09-0	134	133-0	16-3	194	192-6	23-6	254	252-1	31-0
15	14-9	01-8	75	74-4	09-1	135	134-0	16-5	195	193-6	23-8	255	253-1	31-1
16	15-9	01-9	76	75-4	09-3	136	135-0	16-6	196	194-5	23-9	256	254-1	31-2
17	16-9	02-1	77	76-4	09-4	137	136-0	16-7	197	195-5	24-0	257	255-1	31-3
18	17-9	02-3	78	77-4	09-5	138	137-0	16-8	198	196-5	24-1	258	256-1	31-4
19	18-9	02-3	79	78-4	09-6	139	138-0	16-9	199	197-5	24-3	259	257-1	31-6
20	19-9	02-4	80	79-4	09-7	140	139-0	17-1	200	198-5	24-4	260	258-1	31-7
21	20-8	02-6	81	80-4	09-9	141	139-9	17-2	201	199-5	24-5	261	259-1	31-8
22	21-8	02-7	82	81-4	10-0	142	140-9	17-3	202	200-5	24-6	262	260-0	31-9
23	22-8	02-8	83	82-4	10-1	143	141-9	17-4	203	201-5	24-7	263	261-0	32-1
24	23-8	02-9	84	83-4	10-2	144	142-9	17-5	204	202-5	24-9	264	262-0	32-2
25	24-8	03-0	85	84-4	10-4	145	143-9	17-7	205	203-5	25-0	265	263-0	32-3
26	25-8	03-2	86	85-4	10-5	146	144-9	17-8	206	204-5	25-1	266	264-0	32-4
27	26-8	03-3	87	86-4	10-6	147	145-9	17-9	207	205-5	25-2	267	265-0	32-5
28	27-8	03-4	88	87-3	10-7	148	146-9	18-0	208	206-4	25-3	268	266-0	32-7
29	28-8	03-5	89	88-3	10-8	149	147-9	18-2	209	207-4	25-5	269	267-0	32-8
30	29-8	03-7	90	89-3	11-0	150	148-9	18-3	210	208-4	25-6	270	268-0	32-9
31	30-8	03-8	91	90-3	11-1	151	149-9	18-4	211	209-4	25-7	271	269-0	33-0
32	31-8	03-9	92	91-3	11-2	152	150-9	18-5	212	210-4	25-8	272	270-0	33-1
33	32-8	04-0	93	92-3	11-3	153	151-9	18-6	213	211-4	26-0	273	271-0	33-3
34	33-7	04-1	94	93-3	11-5	154	152-9	18-8	214	212-4	26-1	274	272-0	33-4
35	34-7	04-3	95	94-3	11-6	155	153-8	18-9	215	213-4	26-2	275	273-0	33-5
36	35-7	04-4	96	95-3	11-7	156	154-8	19-0	216	214-4	26-3	276	273-9	33-6
37	36-7	04-5	97	96-3	11-8	157	155-8	19-1	217	215-4	26-4	277	274-9	33-8
38	37-7	04-6	98	97-3	11-9	158	156-8	19-3	218	216-4	26-6	278	275-9	33-9
39	38-7	04-8	99	98-3	12-1	159	157-8	19-4	219	217-4	26-7	279	276-9	34-0
40	39-7	04-9	100	99-3	12-2	160	158-8	19-5	220	218-4	26-8	280	277-9	34-1
41	40-7	05-0	101	100-3	12-3	161	159-8	19-6	221	219-4	26-9	281	278-9	34-2
42	41-7	05-1	102	101-3	12-4	162	160-8	19-7	222	220-3	27-1	282	279-9	34-4
43	42-7	05-2	103	102-3	12-6	163	161-8	19-9	223	221-3	27-2	283	280-9	34-5
44	43-7	05-4	104	103-2	12-7	164	162-8	20-0	224	222-3	27-3	284	281-9	34-6
45	44-7	05-5	105	104-2	12-8	165	163-8	20-1	225	223-3	27-4	285	282-9	34-7
46	45-7	05-6	106	105-2	12-9	166	164-8	20-2	226	224-3	27-5	286	283-9	34-9
47	46-6	05-7	107	106-2	13-0	167	165-8	20-4	227	225-3	27-7	287	284-9	35-0
48	47-6	05-8	108	107-2	13-2	168	166-7	20-5	228	226-3	27-8	288	285-9	35-1
49	48-6	06-0	109	108-2	13-3	169	167-7	20-6	229	227-3	27-9	289	286-8	35-2
50	49-6	06-1	110	109-3	13-4	170	168-7	20-7	230	228-3	28-0	290	287-8	35-3
51	50-6	06-2	111	110-2	13-5	171	169-7	20-8	231	229-3	28-2	291	288-8	35-5
52	51-6	06-3	112	111-2	13-6	172	170-7	21-0	232	230-3	28-3	292	289-8	35-6
53	52-6	06-5	113	112-2	13-8	173	171-7	21-1	233	231-3	28-4	293	290-8	35-7
54	53-6	06-6	114	113-2	13-9	174	172-7	21-2	234	232-3	28-5	294	291-8	35-8
55	54-6	06-7	115	114-1	14-0	175	173-7	21-3	235	233-3	28-6	295	292-8	36-0
56	55-6	06-8	116	115-1	14-1	176	174-7	21-4	236	234-3	28-8	296	293-8	36-1
57	56-6	06-9	117	116-1	14-3	177	175-7	21-6	237	235-3	28-9	297	294-8	36-2
58	57-6	07-2	118	117-1	14-4	178	176-7	21-7	238	236-3	29-0	298	295-8	36-3
59	58-6	07-2	119	118-1	14-5	179	177-7	21-8	239	237-3	29-1	299	296-8	36-4
60	59-6	07-3	120	119-1	14-6	180	178-7	21-9	240	238-3	29-2	300	297-8	36-6
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For S.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01°0'	00'1	61	80°4'	08°5'	121	119°8'	16°8'	181	179°2'	25°2'	241	238°7'	32°5'
2	02°0'	00°3	62	81°4'	08°6'	122	120°8'	17°0'	182	180°2'	25°3'	242	239°6'	32°7'
3	03°0'	00°4	63	82°4'	08°8'	123	121°8'	17°1'	183	181°2'	25°5'	243	240°6'	32°8'
4	04°0'	00°6	64	83°4'	08°9'	124	122°8'	17°3'	184	182°2'	25°6'	244	241°6'	32°0'
5	05°0'	00°7	65	84°4'	09°0'	125	123°8'	17°4'	185	183°2'	25°7'	245	242°6'	32°1'
6	05°9'	00°8	66	85°4'	09°2'	126	124°8'	17°5'	186	184°2'	25°9'	246	243°6'	32°2'
7	06°9'	01°0	67	86°2'	09°3'	127	125°8'	17°7'	187	185°2'	26°0'	247	244°6'	32°4'
8	07°9'	01°1	68	87°2'	09°5'	128	126°8'	17°8'	188	186°2'	26°2'	248	245°6'	32°5'
9	08°9'	01°2	69	88°2'	09°6'	129	127°7'	18°0'	189	187°2'	26°3'	249	246°6'	32°7'
10	09°9'	01°4	70	89°2'	09°7'	130	128°7'	18°1'	190	188°2'	26°4'	250	247°6'	32°8'
11	10°9'	01°5	71	90°2'	09°9'	131	129°7'	18°2'	191	189°1'	26°6'	251	248°6'	32°9'
12	11°9'	01°7	72	91°2'	10°0'	132	130°7'	18°4'	192	190°1'	26°7'	252	249°5'	32°1'
13	12°9'	01°8	73	92°3'	10°2'	133	131°7'	18°5'	193	191°1'	26°9'	253	250°5'	32°2'
14	13°9'	01°9	74	93°3'	10°3'	134	132°7'	18°6'	194	192°1'	27°0'	254	251°5'	32°3'
15	14°9'	02°1	75	94°3'	10°4'	135	133°7'	18°8'	195	193°1'	27°1'	255	252°5'	32°5'
16	15°8'	02°2	76	95°3'	10°6'	136	134°7'	18°9'	196	194°1'	27°2'	256	253°5'	32°6'
17	16°8'	02°4	77	96°3'	10°7'	137	135°7'	19°1'	197	195°1'	27°4'	257	254°5'	32°8'
18	17°8'	02°5	78	97°2'	10°9'	138	136°7'	19°2'	198	196°1'	27°6'	258	255°5'	32°9'
19	18°8'	02°6	79	98°2'	11°0'	139	137°7'	19°3'	199	197°1'	27°7'	259	256°5'	32°0'
20	19°8'	02°8	80	99°2'	11°1'	140	138°6'	19°5'	200	198°1'	27°8'	260	257°5'	32°2'
21	20°8'	02°9	81	90°2'	11°3'	141	139°6'	19°6'	201	199°0'	27°9'	261	258°5'	32°3'
22	21°8'	03°1	82	91°2'	11°4'	142	140°6'	19°8'	202	200°0'	28°1'	262	259°5'	32°5'
23	22°8'	03°2	83	92°2'	11°6'	143	141°6'	19°9'	203	201°0'	28°2'	263	260°4'	32°6'
24	23°8'	03°3	84	93°2'	11°7'	144	142°6'	20°0'	204	202°0'	28°4'	264	261°4'	32°7'
25	24°8'	03°5	85	94°2'	11°8'	145	143°6'	20°2'	205	203°0'	28°5'	265	262°4'	32°9'
26	25°7'	03°6	86	95°2'	12°0'	146	144°6'	20°3'	206	204°0'	28°6'	266	263°4'	32°0'
27	26°7'	03°8	87	96°2'	12°1'	147	145°6'	20°5'	207	205°0'	28°8'	267	264°4'	32°2'
28	27°7'	03°9	88	97°1'	12°2'	148	146°6'	20°6'	208	206°0'	28°9'	268	265°4'	32°3'
29	28°7'	04°0	89	98°1'	12°4'	149	147°5'	20°7'	209	207°0'	29°1'	269	266°4'	32°4'
30	29°7'	04°2	90	99°1'	12°5'	150	148°5'	20°9'	210	208°0'	29°2'	270	267°4'	32°6'
31	30°7'	04°3	91	90°1'	12°7'	151	149°5'	21°0'	211	208°9'	29°4'	271	268°4'	32°7'
32	31°7'	04°5	92	91°1'	12°8'	152	150°5'	21°2'	212	209°9'	29°5'	272	269°4'	32°9'
33	32°7'	04°6	93	92°1'	12°9'	153	151°5'	21°3'	213	210°9'	29°6'	273	270°3'	32°0'
34	33°7'	04°7	94	93°1'	13°1'	154	152°5'	21°4'	214	211°9'	29°8'	274	271°3'	32°1'
35	34°7'	04°9	95	94°1'	13°2'	155	153°5'	21°6'	215	212°9'	29°9'	275	272°3'	32°3'
36	35°6'	05°0	96	95°1'	13°4'	156	154°5'	21°7'	216	213°9'	30°1'	276	273°3'	32°4'
37	36°6'	05°1	97	96°1'	13°5'	157	155°5'	21°9'	217	214°9'	30°2'	277	274°3'	32°6'
38	37°6'	05°3	98	97°0'	13°6'	158	156°5'	22°0'	218	215°9'	30°3'	278	275°3'	32°7'
39	38°6'	05°4	99	98°0'	13°8'	159	157°5'	22°1'	219	216°9'	30°5'	279	276°3'	32°8'
40	39°6'	05°6	100	99°0'	13°9'	160	158°4'	22°3'	220	217°9'	30°6'	280	277°3'	32°0'
41	40°6'	05°7	101	100°0'	14°1'	161	159°4'	22°4'	221	218°8'	30°8'	281	278°3'	32°1'
42	41°6'	05°8	102	101°0'	14°2'	162	160°4'	22°5'	222	219°8'	30°9'	282	279°3'	32°3'
43	42°6'	06°0	103	102°0'	14°3'	163	161°4'	22°7'	223	220°8'	31°0'	283	280°2'	32°4'
44	43°6'	06°1	104	103°0'	14°5'	164	162°4'	22°8'	224	221°8'	31°2'	284	281°2'	32°5'
45	44°6'	06°3	105	104°0'	14°6'	165	163°4'	23°0'	225	222°8'	31°3'	285	282°2'	32°7'
46	45°6'	06°4	106	105°0'	14°8'	166	164°4'	23°1'	226	223°8'	31°5'	286	283°2'	32°8'
47	46°5'	06°5	107	106°0'	14°9'	167	165°4'	23°2'	227	224°8'	31°6'	287	284°2'	32°0'
48	47°5'	06°7	108	106°9'	15°0'	168	166°4'	23°4'	228	225°8'	31°7'	288	285°2'	32°1'
49	48°5'	06°8	109	107°9'	15°2'	169	167°4'	23°5'	229	226°8'	31°9'	289	286°2'	32°2'
50	49°5'	07°0	110	108°9'	15°3'	170	168°3'	23°7'	230	227°8'	32°0'	290	287°2'	32°4'
51	50°5'	07°1	111	109°9'	15°4'	171	169°3'	23°8'	231	228°8'	32°1'	291	288°2'	32°5'
52	51°5'	07°2	112	110°9'	15°6'	172	170°3'	23°9'	232	229°7'	32°3'	292	289°2'	32°6'
53	52°5'	07°4	113	111°9'	15°7'	173	171°3'	24°1'	233	230°7'	32°4'	293	290°1'	32°8'
54	53°5'	07°5	114	112°9'	15°9'	174	172°3'	24°2'	234	231°7'	32°6'	294	291°1'	32°9'
55	54°5'	07°7	115	113°9'	16°0'	175	173°3'	24°4'	235	232°7'	32°7'	295	292°1'	32°1'
56	55°5'	07°8	116	114°9'	16°1'	176	174°3'	24°5'	236	233°7'	32°8'	296	293°1'	32°2'
57	56°4'	07°9	117	115°9'	16°3'	177	175°3'	24°6'	237	234°7'	32°0'	297	294°1'	32°3'
58	57°4'	08°1	118	116°9'	16°4'	178	176°3'	24°8'	238	235°7'	32°1'	298	295°1'	32°5'
59	58°4'	08°2	119	117°9'	16°6'	179	177°3'	24°9'	239	236°7'	32°3'	299	296°1'	32°6'
60	59°4'	08°4	120	118°9'	16°7'	180	178°3'	25°1'	240	237°7'	32°4'	300	297°1'	32°8'
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	00-2	09-5	121	119-5	18-9	181	178-8	28-3	241	238-0	37-7
2	02-0	00-3	62	01-2	09-7	122	120-5	19-1	182	179-8	28-5	242	239-0	37-9
3	03-0	00-5	63	02-2	09-9	123	121-6	19-2	183	180-7	28-6	243	240-0	38-0
4	04-0	00-6	64	03-2	10-0	124	122-5	19-4	184	181-7	28-8	244	241-0	38-2
5	04-9	00-8	65	04-2	10-2	125	123-5	19-6	185	182-7	28-9	245	242-0	38-3
6	05-9	00-9	66	05-2	10-3	126	124-4	19-7	186	183-7	29-1	246	243-0	38-5
7	06-9	01-1	67	06-2	10-5	127	125-4	19-9	187	184-7	29-3	247	244-0	38-6
8	07-9	01-3	68	07-2	10-6	128	126-4	20-0	188	185-7	29-4	248	245-0	38-8
9	08-9	01-4	69	08-2	10-8	129	127-4	20-2	189	186-7	29-6	249	245-9	39-0
10	09-9	01-6	70	09-1	11-0	130	128-4	20-3	190	187-7	29-7	250	246-9	39-1
11	10-9	01-7	71	10-1	11-1	131	129-4	20-5	191	188-6	29-9	251	247-9	39-3
12	11-9	01-9	72	11-1	11-3	132	130-4	20-6	192	189-6	30-0	252	248-9	39-4
13	12-8	02-0	73	12-1	11-4	133	131-4	20-8	193	190-6	30-2	253	249-9	39-6
14	13-8	02-2	74	13-1	11-6	134	132-4	21-0	194	191-6	30-3	254	250-9	39-7
15	14-8	02-3	75	14-1	11-7	135	133-4	21-1	195	192-6	30-5	255	251-9	39-9
16	15-8	02-5	76	15-1	11-9	136	134-5	21-2	196	193-6	30-7	256	252-8	40-0
17	16-8	02-7	77	16-1	12-0	137	135-5	21-4	197	194-6	30-8	257	253-8	40-2
18	17-8	02-8	78	17-0	12-2	138	136-5	21-6	198	195-6	31-0	258	254-8	40-4
19	18-8	03-0	79	18-0	12-4	139	137-5	21-7	199	196-5	31-1	259	255-8	40-5
20	19-8	03-1	80	19-0	12-5	140	138-5	21-9	200	197-5	31-3	260	256-8	40-7
21	20-7	03-3	81	20-0	12-7	141	139-5	22-1	201	198-5	31-4	261	257-8	40-8
22	21-7	03-4	82	21-0	12-8	142	140-5	22-2	202	199-5	31-6	262	258-8	41-0
23	22-7	03-6	83	22-0	13-0	143	141-5	22-4	203	200-5	31-8	263	259-8	41-1
24	23-7	03-8	84	23-0	13-1	144	142-5	22-5	204	201-5	31-9	264	260-7	41-3
25	24-7	03-9	85	24-0	13-3	145	143-5	22-7	205	202-5	32-1	265	261-7	41-5
26	25-7	04-1	86	25-0	13-5	146	144-5	22-8	206	203-5	32-2	266	262-7	41-6
27	26-7	04-2	87	26-0	13-6	147	145-5	23-0	207	204-5	32-4	267	263-7	41-8
28	27-7	04-4	88	27-0	13-8	148	146-5	23-2	208	205-4	32-5	268	264-7	41-9
29	28-6	04-5	89	28-0	13-9	149	147-5	23-3	209	206-4	32-7	269	265-7	42-1
30	29-6	04-7	90	29-0	14-1	150	148-5	23-5	210	207-4	32-9	270	266-7	42-2
31	30-6	04-8	91	30-0	14-2	151	149-1	23-6	211	208-4	33-0	271	267-7	42-4
32	31-6	05-0	92	31-0	14-4	152	150-1	23-8	212	209-4	33-2	272	268-7	42-6
33	32-6	05-2	93	32-0	14-5	153	151-1	23-9	213	210-4	33-3	273	269-6	42-7
34	33-6	05-3	94	33-0	14-7	154	152-1	24-1	214	211-4	33-5	274	270-6	42-9
35	34-6	05-5	95	34-0	14-9	155	153-1	24-2	215	212-4	33-6	275	271-6	43-0
36	35-6	05-6	96	35-0	15-0	156	154-1	24-4	216	213-3	33-8	276	272-6	43-2
37	36-5	05-8	97	36-0	15-2	157	155-1	24-6	217	214-3	33-9	277	273-6	43-3
38	37-5	05-9	98	37-0	15-3	158	156-1	24-7	218	215-3	34-1	278	274-6	43-5
39	38-5	06-1	99	38-0	15-5	159	157-0	24-9	219	216-3	34-3	279	275-6	43-6
40	39-5	06-2	100	39-0	15-6	160	158-0	25-0	220	217-3	34-4	280	276-6	43-8
41	40-5	06-4	101	40-0	15-8	161	159-0	25-2	221	218-3	34-6	281	277-5	44-0
42	41-5	06-6	102	41-0	16-0	162	160-0	25-3	222	219-3	34-7	282	278-5	44-1
43	42-5	06-7	103	42-0	16-1	163	161-0	25-5	223	220-3	34-9	283	279-5	44-3
44	43-5	06-9	104	43-0	16-3	164	162-0	25-7	224	221-2	35-0	284	280-5	44-4
45	44-4	07-0	105	44-0	16-4	165	163-0	25-8	225	222-2	35-2	285	281-5	44-6
46	45-4	07-2	106	45-0	16-6	166	164-0	26-0	226	223-2	35-4	286	282-5	44-7
47	46-4	07-4	107	46-0	16-7	167	164-9	26-1	227	224-2	35-5	287	283-5	44-9
48	47-4	07-5	108	47-0	16-9	168	165-9	26-3	228	225-2	35-7	288	284-5	45-1
49	48-4	07-7	109	48-0	17-1	169	166-9	26-4	229	226-2	35-8	289	285-4	45-2
50	49-4	07-8	110	49-0	17-2	170	167-9	26-6	230	227-2	36-0	290	286-4	45-4
51	50-4	08-0	111	50-0	17-4	171	168-9	26-8	231	228-2	36-1	291	287-4	45-5
52	51-4	08-1	112	51-0	17-5	172	169-9	26-9	232	229-1	36-3	292	288-4	45-7
53	52-3	08-3	113	52-0	17-7	173	170-9	27-1	233	230-1	36-4	293	289-4	45-8
54	53-3	08-4	114	53-0	17-8	174	171-9	27-2	234	231-1	36-6	294	290-4	46-0
55	54-3	08-6	115	54-0	18-0	175	172-8	27-4	235	232-1	36-8	295	291-4	46-1
56	55-3	08-8	116	55-0	18-1	176	173-8	27-5	236	233-1	36-9	296	292-4	46-3
57	56-3	08-9	117	56-0	18-3	177	174-8	27-7	237	234-1	37-1	297	293-3	46-5
58	57-3	09-1	118	57-0	18-5	178	175-8	27-8	238	235-1	37-2	298	294-3	46-6
59	58-3	09-2	119	58-0	18-6	179	176-8	28-0	239	236-1	37-4	299	295-3	46-8
60	59-3	09-4	120	59-0	18-8	180	177-8	28-2	240	237-0	37-5	300	296-3	46-9

DIFFERENCE OF LATITUDE AND DEPARTURE.

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For 10°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	60-1	10-6	121	119-2	21-0	181	178-3	31-4	241	237-3	41-8
2	02-0	00-3	62	61-1	10-8	122	120-1	21-2	182	179-2	31-6	242	238-3	42-0
3	03-0	00-5	63	62-0	10-9	123	121-1	21-4	183	180-2	31-8	243	239-3	42-2
4	03-9	00-7	64	63-0	11-1	124	122-1	21-5	184	181-2	32-0	244	240-3	42-4
5	04-9	00-9	65	64-0	11-3	125	123-1	21-7	185	182-2	32-1	245	241-3	42-5
6	05-9	01-0	66	65-0	11-5	126	124-1	21-9	186	183-2	32-3	246	242-3	42-7
7	06-9	01-2	67	66-0	11-6	127	125-1	22-1	187	184-2	32-5	247	243-3	42-9
8	07-9	01-4	68	67-0	11-8	128	126-1	22-2	188	185-1	32-6	248	244-2	43-1
9	08-9	01-6	69	68-0	12-0	129	127-0	22-4	189	186-1	32-8	249	245-2	43-2
10	09-8	01-7	70	68-9	12-2	130	128-0	22-6	190	187-1	33-0	250	246-2	43-4
11	10-8	01-9	71	69-9	12-3	131	129-0	22-7	191	188-1	33-2	251	247-2	43-6
12	11-8	02-1	72	70-9	12-5	132	130-0	22-9	192	189-1	33-3	252	248-2	43-8
13	12-8	02-3	73	71-9	12-7	133	131-0	23-1	193	190-1	33-5	253	249-2	43-9
14	13-8	02-4	74	72-9	12-8	134	132-0	23-3	194	191-1	33-7	254	250-1	44-1
15	14-8	02-6	75	73-9	13-0	135	132-9	23-4	195	192-0	33-9	255	251-1	44-3
16	15-8	02-8	76	74-8	13-2	136	133-9	23-6	196	193-0	34-0	256	252-1	44-5
17	16-7	03-0	77	75-8	13-4	137	134-9	23-8	197	194-0	34-2	257	253-1	44-6
18	17-7	03-1	78	76-8	13-5	138	135-9	24-0	198	195-0	34-4	258	254-1	44-8
19	18-7	03-3	79	77-8	13-7	139	136-9	24-1	199	196-0	34-6	259	255-1	45-0
20	19-7	03-5	80	78-8	13-9	140	137-9	24-3	200	197-0	34-7	260	256-1	45-1
21	20-7	03-6	81	79-8	14-1	141	138-9	24-5	201	197-9	34-9	261	257-0	45-3
22	21-7	03-8	82	80-8	14-2	142	139-8	24-7	202	198-0	35-1	262	258-0	45-5
23	22-7	04-0	83	81-7	14-4	143	140-8	24-8	203	199-9	35-3	263	259-0	45-7
24	23-6	04-2	84	82-7	14-6	144	141-8	25-0	204	200-9	35-4	264	260-0	45-8
25	24-6	04-3	85	83-7	14-8	145	142-8	25-2	205	201-9	35-6	265	261-0	46-0
26	25-6	04-5	86	84-7	14-9	146	143-8	25-4	206	202-9	35-8	266	262-0	46-2
27	26-6	04-7	87	85-7	15-1	147	144-8	25-5	207	203-9	35-9	267	263-9	46-4
28	27-6	04-9	88	86-7	15-3	148	145-8	25-7	208	204-8	36-1	268	264-9	46-5
29	28-6	05-0	89	87-6	15-5	149	146-7	25-9	209	205-8	36-3	269	264-9	46-7
30	29-5	05-2	90	88-6	15-6	150	147-7	26-0	210	206-8	36-5	270	265-9	46-9
31	30-5	05-4	91	89-6	15-8	151	148-7	26-2	211	207-8	36-6	271	266-9	47-1
32	31-5	05-6	92	90-6	16-0	152	149-7	26-4	212	208-8	36-8	272	267-9	47-2
33	32-5	05-7	93	91-6	16-1	153	150-7	26-6	213	209-8	37-0	273	268-9	47-4
34	33-5	05-9	94	92-6	16-3	154	151-7	26-7	214	210-7	37-2	274	269-8	47-6
35	34-5	06-1	95	93-6	16-5	155	152-6	26-9	215	211-7	37-3	275	270-8	47-8
36	35-5	06-3	96	94-5	16-7	156	153-6	27-1	216	212-7	37-5	276	271-8	47-9
37	36-4	06-4	97	95-5	16-8	157	154-6	27-3	217	213-7	37-7	277	272-8	48-1
38	37-4	06-6	98	96-5	17-0	158	155-6	27-4	218	214-7	37-9	278	273-8	48-3
39	38-4	06-8	99	97-5	17-2	159	156-6	27-6	219	215-7	38-0	279	274-8	48-4
40	39-4	06-9	100	98-5	17-4	160	157-6	27-8	220	216-7	38-2	280	275-7	48-6
41	40-4	07-1	101	99-5	17-5	161	158-6	28-0	221	217-6	38-4	281	276-7	48-8
42	41-4	07-3	102	100-5	17-7	162	159-5	28-1	222	218-6	38-5	282	277-7	49-0
43	42-3	07-5	103	101-4	17-9	163	160-5	28-3	223	219-6	38-7	283	278-7	49-1
44	43-3	07-6	104	102-4	18-1	164	161-5	28-5	224	220-6	38-9	284	279-7	49-3
45	44-3	07-8	105	103-4	18-2	165	162-5	28-7	225	221-6	39-1	285	280-7	49-5
46	45-3	08-0	106	104-4	18-4	166	163-5	28-8	226	222-6	39-2	286	281-7	49-7
47	46-3	08-2	107	105-4	18-6	167	164-5	29-0	227	223-6	39-4	287	282-6	49-8
48	47-3	08-3	108	106-4	18-8	168	165-4	29-2	228	224-5	39-6	288	283-6	50-0
49	48-3	08-5	109	107-3	18-9	169	166-4	29-3	229	225-5	39-8	289	284-6	50-2
50	49-2	08-7	110	108-3	19-1	170	167-4	29-5	230	226-5	39-9	290	285-6	50-4
51	50-2	08-9	111	109-3	19-3	171	168-4	29-7	231	227-5	40-1	291	286-6	50-5
52	51-2	09-0	112	110-3	19-4	172	169-4	29-9	232	228-5	40-3	292	287-6	50-7
53	52-2	09-2	113	111-3	19-6	173	170-4	30-0	233	229-5	40-5	293	288-6	50-9
54	53-2	09-4	114	112-3	19-8	174	171-4	30-2	234	230-4	40-6	294	289-5	51-1
55	54-2	09-6	115	113-3	20-0	175	172-3	30-4	235	231-4	40-8	295	290-5	51-2
56	55-1	09-7	116	114-2	20-1	176	173-3	30-6	236	232-4	41-0	296	291-5	51-4
57	56-1	09-9	117	115-2	20-3	177	174-3	30-7	237	233-4	41-2	297	292-5	51-6
58	57-1	10-1	118	116-2	20-5	178	175-3	30-9	238	234-4	41-3	298	293-5	51-7
59	58-1	10-2	119	117-2	20-7	179	176-3	31-1	239	235-4	41-5	299	294-5	51-9
60	59-1	10-4	120	118-2	20-8	180	177-3	31-3	240	236-4	41-7	300	295-4	52-1
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	59-9	11-6	121	118-8	23-1	181	177-7	34-5	241	236-6	46-0
2	02-0	00-4	62	60-9	11-8	122	119-6	23-3	182	178-7	34-7	242	237-6	46-2
3	03-0	00-6	63	61-8	12-0	123	120-7	23-5	183	179-6	34-9	243	238-5	46-4
4	04-0	00-8	64	62-8	12-2	124	121-7	23-7	184	180-6	35-1	244	239-5	46-6
5	04-9	01-0	65	63-8	12-4	125	122-7	23-9	185	181-6	35-3	245	240-5	46-7
6	05-9	01-1	66	64-8	12-6	126	123-7	24-0	186	182-6	35-5	246	241-5	46-9
7	06-9	01-3	67	65-8	12-8	127	124-7	24-2	187	183-6	35-7	247	242-5	47-1
8	07-9	01-5	68	66-8	13-0	128	125-6	24-4	188	184-5	35-9	248	243-4	47-3
9	08-8	01-7	69	67-7	13-2	129	126-6	24-6	189	185-5	36-1	249	244-4	47-5
10	09-8	01-9	70	68-7	13-4	130	127-6	24-8	190	186-5	36-3	250	245-4	47-7
11	10-8	02-1	71	69-5	13-5	131	128-6	25-0	191	187-5	36-4	251	246-4	47-9
12	11-8	02-3	72	70-7	13-7	132	129-6	25-2	192	188-5	36-6	252	247-4	48-1
13	12-8	02-5	73	71-7	13-9	133	130-6	25-4	193	189-5	36-8	253	248-4	48-3
14	13-7	02-7	74	72-6	14-1	134	131-5	25-6	194	190-4	37-0	254	249-3	48-5
15	14-7	02-9	75	73-6	14-3	135	132-5	25-8	195	191-4	37-2	255	250-3	48-7
16	15-7	03-1	76	74-6	14-5	136	133-5	26-0	196	192-4	37-4	256	251-3	48-8
17	16-7	03-3	77	75-6	14-7	137	134-5	26-1	197	193-4	37-6	257	252-3	49-0
18	17-7	03-4	78	76-6	14-9	138	135-5	26-3	198	194-4	37-8	258	253-3	49-2
19	18-7	03-6	79	77-5	15-1	139	136-4	26-5	199	195-3	38-0	259	254-2	49-4
20	19-6	03-8	80	78-5	15-3	140	137-4	26-7	200	196-3	38-2	260	255-2	49-6
21	20-6	04-0	81	79-5	15-5	141	138-4	26-9	201	197-3	38-4	261	256-2	49-8
22	21-6	04-2	82	80-5	15-6	142	139-4	27-1	202	198-3	38-5	262	257-2	50-0
23	22-6	04-4	83	81-5	15-8	143	140-4	27-3	203	199-3	38-7	263	258-2	50-2
24	23-6	04-6	84	82-5	16-0	144	141-4	27-5	204	200-3	38-9	264	259-1	50-4
25	24-5	04-8	85	83-4	16-2	145	142-3	27-7	205	201-2	39-1	265	260-1	50-6
26	25-5	05-0	86	84-4	16-4	146	143-3	27-9	206	202-2	39-3	266	261-1	50-8
27	26-5	05-2	87	85-4	16-6	147	144-3	28-0	207	203-2	39-5	267	262-1	50-9
28	27-5	05-3	88	86-4	16-8	148	145-3	28-2	208	204-2	39-7	268	263-1	51-1
29	28-5	05-5	89	87-4	17-0	149	146-3	28-4	209	205-2	39-9	269	264-1	51-3
30	29-4	05-7	90	88-3	17-2	150	147-2	28-6	210	206-1	40-1	270	265-0	51-5
31	30-4	05-9	91	89-3	17-4	151	148-2	28-8	211	207-1	40-3	271	266-0	51-7
32	31-4	06-1	92	90-3	17-6	152	149-2	29-0	212	208-1	40-5	272	267-0	51-9
33	32-4	06-3	93	91-3	17-7	153	150-2	29-2	213	209-1	40-6	273	268-0	52-1
34	33-4	06-5	94	92-3	17-9	154	151-2	29-4	214	210-1	40-8	274	269-0	52-3
35	34-4	06-7	95	93-3	18-1	155	152-2	29-6	215	211-0	41-0	275	269-9	52-5
36	35-3	06-9	96	94-2	18-3	156	153-1	29-8	216	212-0	41-2	276	270-9	52-7
37	36-3	07-1	97	95-2	18-5	157	154-1	30-0	217	213-0	41-4	277	271-9	52-9
38	37-3	07-3	98	96-2	18-7	158	155-1	30-1	218	214-0	41-6	278	272-9	53-0
39	38-3	07-4	99	97-2	18-9	159	156-1	30-3	219	215-0	41-8	279	273-9	53-3
40	39-3	07-6	100	98-2	19-1	160	157-1	30-5	220	216-0	42-0	280	274-9	53-4
41	40-2	07-8	101	99-1	19-3	161	158-0	30-7	221	216-9	42-2	281	275-8	53-6
42	41-2	08-0	102	100-1	19-5	162	159-0	30-9	222	217-9	42-4	282	276-8	53-8
43	42-2	08-2	103	101-1	19-7	163	160-0	31-1	223	218-9	42-6	283	277-8	54-0
44	43-2	08-4	104	102-1	19-8	164	161-0	31-3	224	219-9	42-7	284	278-8	54-2
45	44-2	08-6	105	103-1	20-0	165	162-0	31-5	225	220-9	42-9	285	279-8	54-4
46	45-2	08-8	106	104-1	20-2	166	163-0	31-7	226	221-8	43-1	286	280-7	54-6
47	46-1	09-0	107	105-0	20-4	167	163-9	31-9	227	222-8	43-3	287	281-7	54-8
48	47-1	09-2	108	106-0	20-6	168	164-9	32-1	228	223-8	43-5	288	282-7	55-0
49	48-1	09-3	109	107-0	20-8	169	165-9	32-2	229	224-8	43-7	289	283-7	55-1
50	49-1	09-5	110	108-0	21-0	170	166-9	32-4	230	225-8	43-9	290	284-7	55-3
51	50-1	09-7	111	109-0	21-2	171	167-9	32-6	231	226-8	44-1	291	285-7	55-5
52	51-0	09-9	112	109-9	21-4	172	168-8	32-8	232	227-7	44-3	292	286-6	55-7
53	52-0	10-1	113	110-9	21-6	173	169-8	33-0	233	228-7	44-5	293	287-6	55-9
54	53-0	10-3	114	111-9	21-8	174	170-8	33-2	234	229-7	44-6	294	288-6	56-1
55	54-0	10-5	115	112-9	21-9	175	171-8	33-4	235	230-7	44-8	295	289-6	56-3
56	55-0	10-7	116	113-9	22-1	176	172-8	33-6	236	231-7	45-0	296	290-6	56-5
57	56-0	10-9	117	114-9	22-3	177	173-7	33-8	237	232-6	45-2	297	291-5	56-7
58	56-9	11-1	118	115-8	22-5	178	174-7	34-0	238	233-6	45-4	298	292-5	56-9
59	57-9	11-3	119	116-8	22-7	179	175-7	34-2	239	234-6	45-6	299	293-5	57-1
60	58-9	11-4	120	117-8	22-9	180	176-7	34-3	240	235-6	45-8	300	294-5	57-2
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 12°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	59-7	13-7	121	118-4	35-3	181	177-0	37-6	241	235-7	50-1
2	02-0	00-4	62	60-6	13-9	122	119-3	35-4	182	178-0	37-8	242	236-7	50-3
3	02-9	00-6	63	61-6	13-1	123	120-3	35-6	183	179-0	38-0	243	237-7	50-5
4	03-9	00-8	64	62-6	13-3	124	121-3	35-8	184	180-0	38-3	244	238-7	50-7
5	04-9	01-0	65	63-6	13-5	125	122-3	36-0	185	181-0	38-5	245	239-6	50-9
6	05-9	01-2	66	64-6	13-7	126	123-3	36-2	186	181-9	38-7	246	240-6	51-1
7	06-8	01-5	67	65-5	13-9	127	124-2	36-4	187	182-9	38-9	247	241-6	51-4
8	07-8	01-7	68	66-5	14-1	128	125-2	36-6	188	183-9	39-1	248	242-6	51-6
9	08-8	01-9	69	67-5	14-3	129	126-2	36-8	189	184-9	39-3	249	243-6	51-8
10	09-8	02-1	70	68-5	14-6	130	127-2	37-0	190	185-8	39-5	250	244-5	52-0
11	10-8	02-3	71	69-4	14-8	131	128-1	37-2	191	186-8	39-7	251	245-5	52-2
12	11-7	02-5	72	70-4	15-0	132	129-1	37-4	192	187-8	39-9	252	246-5	52-4
13	12-7	02-7	73	71-4	15-2	133	130-1	37-7	193	188-8	40-1	253	247-5	52-6
14	13-7	02-9	74	72-4	15-4	134	131-1	37-9	194	189-8	40-3	254	248-4	52-8
15	14-7	03-1	75	73-4	15-6	135	132-0	38-1	195	190-7	40-5	255	249-4	53-0
16	15-7	03-3	76	74-3	15-8	136	133-0	38-3	196	191-7	40-8	256	250-4	53-2
17	16-6	03-5	77	75-3	16-0	137	134-0	38-5	197	192-7	41-0	257	251-4	53-4
18	17-6	03-7	78	76-3	16-2	138	135-0	38-7	198	193-7	41-2	258	252-4	53-6
19	18-6	04-0	79	77-3	16-4	139	136-0	38-9	199	194-7	41-4	259	253-3	53-8
20	19-6	04-2	80	78-3	16-6	140	136-9	39-1	200	195-6	41-6	260	254-3	54-1
21	20-5	04-4	81	79-2	16-8	141	137-9	39-3	201	196-6	41-8	261	255-3	54-3
22	21-5	04-6	82	80-2	17-0	142	138-9	39-5	202	197-6	42-0	262	256-3	54-5
23	22-5	04-8	83	81-2	17-3	143	139-9	39-7	203	198-6	42-2	263	257-3	54-7
24	23-5	05-0	84	82-2	17-5	144	140-9	39-9	204	199-5	42-4	264	258-2	54-9
25	24-5	05-2	85	83-1	17-7	145	141-8	40-1	205	200-5	42-6	265	259-2	55-1
26	25-4	05-4	86	84-1	17-9	146	142-8	40-4	206	201-5	42-8	266	260-2	55-2
27	26-4	05-6	87	85-1	18-1	147	143-8	40-6	207	202-5	43-0	267	261-2	55-5
28	27-4	05-8	88	86-1	18-3	148	144-8	40-8	208	203-5	43-2	268	262-1	55-7
29	28-4	06-0	89	87-1	18-5	149	145-7	41-0	209	204-4	43-4	269	263-1	55-9
30	29-3	06-2	90	88-0	18-7	150	146-7	41-2	210	205-4	43-7	270	264-1	56-1
31	30-3	06-4	91	89-0	18-9	151	147-7	41-4	211	206-4	43-9	271	265-1	56-3
32	31-3	06-7	92	90-0	19-1	152	148-7	41-6	212	207-4	44-1	272	266-1	56-6
33	32-3	06-9	93	91-0	19-3	153	149-7	41-8	213	208-3	44-3	273	267-0	56-8
34	33-3	07-1	94	91-9	19-5	154	150-6	42-0	214	209-3	44-5	274	268-0	57-0
35	34-2	07-3	95	92-9	19-8	155	151-6	42-2	215	210-3	44-7	275	269-0	57-2
36	35-2	07-5	96	93-9	20-0	156	152-6	42-4	216	211-3	44-9	276	270-0	57-4
37	36-2	07-7	97	94-9	20-2	157	153-6	42-6	217	212-3	45-1	277	271-9	57-6
38	37-2	07-9	98	95-9	20-4	158	154-5	42-9	218	213-2	45-3	278	272-9	57-8
39	38-1	08-1	99	96-8	20-6	159	155-5	43-1	219	214-2	45-5	279	273-9	58-0
40	39-1	08-3	100	97-8	20-8	160	156-5	43-3	220	215-2	45-7	280	274-9	58-2
41	40-1	08-5	101	98-8	21-0	161	157-5	43-5	221	216-2	45-9	281	275-9	58-4
42	41-1	08-7	102	99-8	21-2	162	158-5	43-7	222	217-1	46-2	282	276-8	58-6
43	42-1	08-9	103	100-7	21-4	163	159-4	43-9	223	218-1	46-4	283	276-8	58-8
44	43-0	09-1	104	101-7	21-6	164	160-4	44-1	224	219-1	46-6	284	277-8	59-0
45	44-0	09-4	105	102-7	21-8	165	161-4	44-3	225	220-1	46-8	285	278-8	59-2
46	45-0	09-6	106	103-7	22-0	166	162-4	44-5	226	221-1	47-0	286	279-8	59-5
47	46-0	09-8	107	104-7	22-2	167	163-4	44-7	227	222-0	47-2	287	280-7	59-7
48	47-0	10-0	108	105-6	22-5	168	164-3	44-9	228	223-0	47-4	288	281-7	59-9
49	47-9	10-2	109	106-6	22-7	169	165-3	45-1	229	224-0	47-6	289	282-7	60-1
50	48-9	10-4	110	107-6	22-9	170	166-3	45-3	230	225-0	47-8	290	283-7	60-3
51	49-9	10-6	111	108-6	23-1	171	167-3	45-6	231	226-0	48-0	291	284-6	60-5
52	50-9	10-8	112	109-6	23-3	172	168-2	45-8	232	226-9	48-2	292	285-6	60-7
53	51-8	11-0	113	110-5	23-5	173	169-2	46-0	233	227-9	48-4	293	286-6	60-9
54	52-8	11-2	114	111-5	23-7	174	170-2	46-2	234	228-9	48-7	294	287-6	61-1
55	53-8	11-4	115	112-5	23-9	175	171-2	46-4	235	229-9	48-9	295	288-6	61-2
56	54-8	11-6	116	113-5	24-1	176	172-2	46-6	236	230-8	49-1	296	289-5	61-5
57	55-8	11-9	117	114-4	24-3	177	173-1	46-8	237	231-8	49-3	297	290-5	61-7
58	56-7	12-1	118	115-4	24-5	178	174-1	47-0	238	232-8	49-5	298	291-5	62-0
59	57-7	12-3	119	116-4	24-7	179	175-1	47-2	239	233-8	49-7	299	292-5	62-2
60	58-7	12-5	120	117-4	24-9	180	176-1	47-4	240	234-8	49-9	300	293-4	62-4

Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dep. Dist. Lat. Dep.

For 15°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	59-4	13-7	121	117-9	27-2	181	170-4	40-7	241	234-8	54-2
2	01-9	00-4	62	60-4	13-9	122	118-9	27-4	182	171-3	40-9	242	235-8	54-4
3	02-9	00-7	63	61-4	14-2	123	119-8	27-7	183	172-3	41-2	243	236-8	54-7
4	03-9	00-9	64	62-4	14-4	124	120-8	27-9	184	173-3	41-4	244	237-7	54-9
5	04-9	01-1	65	63-3	14-6	125	121-8	28-1	185	174-3	41-6	245	238-7	55-1
6	05-8	01-3	66	64-3	14-8	126	122-8	28-3	186	175-2	41-8	246	239-7	55-3
7	06-8	01-6	67	65-3	15-1	127	123-7	28-6	187	176-2	42-1	247	240-7	55-6
8	07-8	01-8	68	66-3	15-3	128	124-7	28-8	188	177-2	42-3	248	241-6	55-8
9	08-8	02-0	69	67-2	15-5	129	125-7	29-0	189	178-2	42-5	249	242-6	56-0
10	09-7	02-2	70	68-2	15-7	130	126-7	29-2	190	179-1	42-7	250	243-6	56-2
11	10-7	02-5	71	69-2	16-0	131	127-6	29-5	191	180-1	43-0	251	244-6	56-5
12	11-7	02-7	72	70-2	16-2	132	128-6	29-7	192	181-1	43-2	252	245-5	56-7
13	12-7	02-9	73	71-1	16-4	133	129-6	29-9	193	182-1	43-4	253	246-5	56-9
14	13-6	03-1	74	72-1	16-6	134	130-6	30-1	194	183-0	43-6	254	247-5	57-1
15	14-6	03-4	75	73-1	16-9	135	131-5	30-4	195	184-0	43-9	255	248-5	57-4
16	15-6	03-6	76	74-1	17-1	136	132-5	30-6	196	185-0	44-1	256	249-4	57-6
17	16-6	03-8	77	75-0	17-3	137	133-5	30-8	197	186-0	44-3	257	250-4	57-8
18	17-5	04-0	78	76-0	17-5	138	134-5	31-0	198	187-0	44-5	258	251-4	58-0
19	18-5	04-3	79	77-0	17-8	139	135-4	31-3	199	188-0	44-8	259	252-4	58-3
20	19-5	04-5	80	77-9	18-0	140	136-4	31-5	200	189-0	45-0	260	253-3	58-5
21	20-5	04-7	81	78-9	18-2	141	137-4	31-7	201	190-8	45-2	261	254-3	58-7
22	21-4	04-9	82	79-9	18-4	142	138-4	31-9	202	191-8	45-4	262	255-3	58-9
23	22-4	05-2	83	80-9	18-7	143	139-3	32-2	203	192-8	45-7	263	256-3	59-2
24	23-4	05-4	84	81-8	18-9	144	140-3	32-4	204	193-8	45-9	264	257-2	59-4
25	24-4	05-6	85	82-8	19-1	145	141-3	32-6	205	194-7	46-1	265	258-2	59-6
26	25-3	05-8	86	83-8	19-3	146	142-3	32-8	206	195-7	46-3	266	259-2	59-8
27	26-3	06-1	87	84-8	19-6	147	143-2	33-1	207	196-7	46-6	267	260-2	60-1
28	27-3	06-3	88	85-7	19-8	148	144-2	33-3	208	197-7	46-8	268	261-1	60-3
29	28-3	06-5	89	86-7	20-0	149	145-2	33-5	209	198-6	47-0	269	262-1	60-5
30	29-2	06-7	90	87-7	20-2	150	146-2	33-7	210	199-6	47-2	270	263-1	60-7
31	30-2	07-0	91	88-7	20-5	151	147-1	34-0	211	200-6	47-5	271	264-1	61-0
32	31-2	07-2	92	89-6	20-7	152	148-1	34-2	212	201-6	47-7	272	265-0	61-2
33	32-2	07-4	93	90-6	20-9	153	149-1	34-4	213	202-5	47-9	273	266-0	61-4
34	33-1	07-6	94	91-6	21-1	154	150-1	34-6	214	203-5	48-1	274	267-0	61-6
35	34-1	07-9	95	92-6	21-4	155	151-0	34-9	215	204-5	48-4	275	268-0	61-9
36	35-1	08-1	96	93-5	21-6	156	152-0	35-1	216	205-5	48-6	276	269-0	62-1
37	36-1	08-3	97	94-5	21-8	157	153-0	35-3	217	206-4	48-8	277	270-0	62-3
38	37-0	08-5	98	95-5	22-0	158	154-0	35-5	218	207-4	49-0	278	271-0	62-6
39	38-0	08-8	99	96-5	22-3	159	154-9	35-8	219	208-4	49-3	279	271-8	62-8
40	39-0	09-0	100	97-4	22-5	160	155-9	36-0	220	209-4	49-5	280	272-8	63-0
41	39-0	09-2	101	98-4	22-7	161	156-9	36-2	221	210-3	49-7	281	273-8	63-2
42	40-9	09-4	102	99-4	22-9	162	157-8	36-4	222	211-3	49-9	282	274-8	63-4
43	41-9	09-7	103	100-4	23-2	163	158-8	36-7	223	212-3	50-2	283	275-7	63-7
44	42-9	09-9	104	101-3	23-4	164	159-8	36-9	224	213-3	50-4	284	276-7	63-9
45	43-8	10-1	105	102-3	23-6	165	160-8	37-1	225	214-2	50-6	285	277-7	64-1
46	44-8	10-3	106	103-3	23-8	166	161-7	37-3	226	215-2	50-8	286	278-7	64-3
47	45-8	10-6	107	104-3	24-1	167	162-7	37-6	227	216-2	51-1	287	279-6	64-6
48	46-8	10-8	108	105-2	24-3	168	163-7	37-8	228	217-2	51-3	288	280-6	64-8
49	47-7	11-0	109	106-2	24-5	169	164-7	38-0	229	218-1	51-5	289	281-6	65-0
50	48-7	11-2	110	107-2	24-7	170	165-6	38-3	230	219-1	51-7	290	282-6	65-3
51	49-7	11-5	111	108-2	25-0	171	166-6	38-5	231	220-1	52-0	291	283-5	65-5
52	50-7	11-7	112	109-1	25-2	172	167-6	38-7	232	221-1	52-2	292	284-5	65-7
53	51-6	11-9	113	110-1	25-4	173	168-6	38-9	233	222-0	52-4	293	285-5	65-9
54	52-6	12-1	114	111-1	25-6	174	169-5	39-1	234	223-0	52-6	294	286-5	66-1
55	53-6	12-4	115	112-1	25-9	175	170-5	39-4	235	224-0	52-9	295	287-4	66-4
56	54-6	12-6	116	113-0	26-1	176	171-5	39-6	236	225-0	53-1	296	288-4	66-6
57	55-5	12-8	117	114-0	26-3	177	172-5	39-8	237	226-0	53-3	297	289-4	66-8
58	56-5	13-0	118	115-0	26-5	178	173-4	40-0	238	227-9	53-5	298	290-4	67-0
59	57-5	13-3	119	116-0	26-8	179	174-4	40-3	239	228-9	53-8	299	291-3	67-3
60	58-5	13-5	120	116-9	27-0	180	175-4	40-5	240	229-8	54-0	300	292-3	67-5

Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
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For 1°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-2	61	59-2	14-8	121	117-4	29-3	181	175-6	43-8	241	233-8	58-3
2	01-9	00-5	62	59-2	15-0	122	118-4	29-5	182	176-6	44-0	242	234-8	58-6
3	02-9	00-7	63	61-1	15-2	123	119-3	29-8	183	177-6	44-3	243	235-8	58-9
4	03-9	01-0	64	62-1	15-5	124	120-3	30-0	184	178-5	44-5	244	236-8	59-0
5	04-9	01-2	65	63-1	15-7	125	121-3	30-2	185	179-5	44-8	245	237-7	59-3
6	05-8	01-5	66	64-0	16-0	126	122-3	30-5	186	180-5	45-0	246	238-7	59-6
7	06-8	01-7	67	65-0	16-2	127	123-2	30-7	187	181-4	45-2	247	239-7	59-8
8	07-8	01-9	68	66-0	16-5	128	124-2	31-0	188	182-4	45-5	248	240-6	60-0
9	08-7	02-2	69	67-0	16-7	129	125-2	31-2	189	183-4	45-7	249	241-6	60-2
10	09-7	02-4	70	67-9	16-9	130	126-1	31-4	190	184-4	46-0	250	242-6	60-5
11	10-7	02-7	71	68-9	17-2	131	127-1	31-7	191	185-3	46-2	251	243-5	60-7
12	11-6	02-9	72	69-9	17-4	132	128-1	31-9	192	186-3	46-4	252	244-5	61-0
13	12-6	03-1	73	70-8	17-7	133	129-0	32-2	193	187-3	46-7	253	245-5	61-2
14	13-6	03-4	74	71-8	17-9	134	130-0	32-4	194	188-2	46-9	254	246-5	61-4
15	14-6	03-6	75	72-8	18-1	135	131-0	32-7	195	189-2	47-2	255	247-4	61-7
16	15-5	03-9	76	73-7	18-4	136	132-0	32-9	196	190-2	47-4	256	248-4	61-9
17	16-5	04-1	77	74-7	18-6	137	132-9	33-1	197	191-1	47-7	257	249-4	62-2
18	17-5	04-4	78	75-7	18-9	138	133-9	33-4	198	192-1	47-9	258	250-3	62-4
19	18-4	04-6	79	76-7	19-1	139	134-9	33-6	199	193-1	48-1	259	251-3	62-7
20	19-4	04-8	80	77-6	19-4	140	135-8	33-9	200	194-1	48-4	260	252-3	62-9
21	20-4	05-1	81	78-6	19-6	141	136-8	34-1	201	195-0	48-6	261	253-2	63-1
22	21-3	05-3	82	79-6	19-8	142	137-8	34-4	202	196-0	48-9	262	254-2	63-4
23	22-3	05-6	83	80-5	20-1	143	138-8	34-6	203	197-0	49-1	263	255-2	63-6
24	23-3	05-8	84	81-5	20-3	144	139-7	34-8	204	197-9	49-4	264	256-2	63-9
25	24-3	06-0	85	82-5	20-6	145	140-7	35-1	205	198-9	49-6	265	257-1	64-1
26	25-2	06-3	86	83-4	20-8	146	141-7	35-3	206	199-9	49-8	266	258-1	64-4
27	26-2	06-5	87	84-4	21-0	147	142-6	35-6	207	200-9	50-1	267	259-1	64-6
28	27-2	06-8	88	85-4	21-3	148	143-6	35-8	208	201-8	50-3	268	260-0	64-8
29	28-1	07-0	89	86-4	21-6	149	144-6	36-0	209	202-8	50-6	269	261-0	65-1
30	29-1	07-3	90	87-3	21-8	150	145-5	36-3	210	203-8	50-8	270	262-0	65-3
31	30-1	07-5	91	88-3	22-0	151	146-5	36-5	211	204-7	51-0	271	263-0	65-6
32	31-0	07-7	92	89-3	22-3	152	147-5	36-8	212	205-7	51-3	272	263-9	65-8
33	32-0	08-0	93	90-2	22-5	153	148-5	37-0	213	206-7	51-5	273	264-9	66-0
34	33-0	08-2	94	91-2	22-7	154	149-4	37-3	214	207-6	51-8	274	265-9	66-3
35	34-0	08-5	95	92-2	23-0	155	150-4	37-5	215	208-6	52-0	275	266-8	66-5
36	34-9	08-7	96	93-1	23-2	156	151-4	37-7	216	209-6	52-3	276	267-8	66-8
37	35-9	09-0	97	94-1	23-5	157	152-3	38-0	217	210-6	52-5	277	268-8	67-0
38	36-9	09-2	98	95-1	23-7	158	153-3	38-2	218	211-5	52-7	278	269-7	67-3
39	37-8	09-4	99	96-1	24-0	159	154-3	38-5	219	212-5	53-0	279	270-7	67-5
40	38-8	09-7	100	97-0	24-2	160	155-2	38-7	220	213-5	53-2	280	271-7	67-7
41	39-8	09-9	101	98-0	24-4	161	156-2	38-9	221	214-4	53-5	281	272-7	68-0
42	40-8	10-2	102	99-0	24-7	162	157-2	39-2	222	215-4	53-7	282	273-6	68-2
43	41-7	10-4	103	99-9	24-9	163	158-2	39-4	223	216-4	53-9	283	274-6	68-5
44	42-7	10-6	104	100-9	25-2	164	159-1	39-7	224	217-3	54-2	284	275-6	68-7
45	43-7	10-9	105	101-9	25-4	165	160-1	39-9	225	218-3	54-4	285	276-5	68-9
46	44-6	11-1	106	102-9	25-6	166	161-1	40-2	226	219-3	54-7	286	277-5	69-2
47	45-6	11-4	107	103-8	25-9	167	162-0	40-4	227	220-3	54-9	287	278-5	69-4
48	46-6	11-6	108	104-8	26-1	168	163-0	40-6	228	221-2	55-2	288	279-4	69-7
49	47-5	11-9	109	105-8	26-4	169	164-0	40-9	229	222-2	55-4	289	280-4	69-9
50	48-5	12-1	110	106-7	26-6	170	165-0	41-1	230	223-2	55-6	290	281-4	70-2
51	49-5	12-3	111	107-7	26-9	171	165-9	41-4	231	224-1	55-9	291	282-4	70-4
52	50-5	12-6	112	108-7	27-1	172	166-9	41-6	232	225-1	56-1	292	283-3	70-6
53	51-4	12-8	113	109-6	27-3	173	167-9	41-9	233	226-1	56-4	293	284-3	70-9
54	52-4	13-1	114	110-6	27-6	174	168-8	42-1	234	227-0	56-6	294	285-3	71-1
55	53-4	13-3	115	111-6	27-8	175	169-8	42-3	235	228-0	56-9	295	286-2	71-4
56	54-3	13-5	116	112-6	28-1	176	170-8	42-6	236	229-0	57-1	296	287-2	71-6
57	55-3	13-8	117	113-5	28-3	177	171-7	42-8	237	230-0	57-3	297	288-2	71-9
58	56-3	14-0	118	114-5	28-6	178	172-7	43-1	238	230-9	57-6	298	289-1	72-1
59	57-2	14-3	119	115-5	28-8	179	173-7	43-3	239	231-9	57-8	299	290-1	72-3
60	58-2	14-5	120	116-4	29-0	180	174-7	43-6	240	232-9	58-1	300	291-1	72-6

Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat. Dist. Dep. Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-3	61	58-9	15-8	121	116-9	31-3	181	174-8	46-8	211	233-8	62-4
2	01-9	00-5	62	59-9	16-0	122	117-8	31-6	182	175-8	47-1	212	233-8	62-6
3	02-9	00-8	63	60-9	16-3	123	118-8	31-8	183	176-8	47-4	213	234-7	62-9
4	03-9	01-0	64	61-8	16-6	124	119-8	32-1	184	177-7	47-6	214	235-7	63-2
5	04-8	01-3	65	62-8	16-8	125	120-7	32-4	185	178-7	47-9	215	236-7	63-4
6	05-8	01-6	66	63-8	17-1	126	121-7	32-6	186	179-7	48-1	216	237-6	63-7
7	06-8	01-8	67	64-7	17-3	127	122-7	32-9	187	180-6	48-4	217	238-6	63-9
8	07-7	02-1	68	65-7	17-6	128	123-6	33-1	188	181-6	48-7	218	239-5	64-2
9	08-7	02-3	69	66-6	17-9	129	124-6	33-4	189	182-6	48-9	219	240-5	64-4
10	09-7	02-6	70	67-6	18-1	130	125-6	33-6	190	183-5	49-2	220	241-5	64-7
11	10-6	02-8	71	68-6	18-4	131	126-5	33-9	191	184-5	49-4	221	242-4	65-0
12	11-6	03-1	72	69-5	18-6	132	127-5	34-2	192	185-5	49-7	222	243-4	65-2
13	12-6	03-4	73	70-5	18-9	133	128-4	34-4	193	186-4	50-0	223	244-4	65-5
14	13-5	03-6	74	71-5	19-2	134	129-4	34-7	194	187-4	50-2	224	245-3	65-7
15	14-5	03-9	75	72-4	19-4	135	130-4	34-9	195	188-4	50-5	225	246-3	66-0
16	15-5	04-1	76	73-4	19-7	136	131-4	35-2	196	189-3	50-7	226	247-3	66-3
17	16-4	04-4	77	74-4	19-9	137	132-3	35-5	197	190-3	51-0	227	248-2	66-5
18	17-4	04-7	78	75-3	20-2	138	133-3	35-7	198	191-3	51-2	228	249-2	66-8
19	18-4	04-9	79	76-3	20-4	139	134-3	36-0	199	192-2	51-5	229	250-2	67-0
20	19-3	05-2	80	77-3	20-7	140	135-2	36-2	200	193-2	51-8	230	251-1	67-3
21	20-3	05-4	81	78-2	21-0	141	136-2	36-5	201	194-2	52-0	231	252-1	67-6
22	21-3	05-7	82	79-2	21-2	142	137-2	36-8	202	195-1	52-3	232	253-1	67-8
23	22-2	06-0	83	80-2	21-5	143	138-1	37-0	203	196-1	52-5	233	254-0	68-1
24	23-2	06-2	84	81-1	21-7	144	139-1	37-3	204	197-0	52-8	234	255-0	68-3
25	24-1	06-5	85	82-1	22-0	145	140-1	37-5	205	198-0	53-1	235	256-0	68-6
26	25-1	06-7	86	83-1	22-3	146	141-0	37-8	206	199-0	53-3	236	256-9	68-8
27	26-1	07-0	87	84-0	22-5	147	142-0	38-0	207	199-9	53-6	237	257-9	69-1
28	27-0	07-2	88	85-0	22-8	148	143-0	38-3	208	200-9	53-8	238	258-9	69-4
29	28-0	07-5	89	86-0	23-0	149	143-9	38-6	209	201-9	54-1	239	259-8	69-6
30	29-0	07-8	90	86-9	23-3	150	144-9	38-8	210	202-8	54-4	240	260-8	69-9
31	29-9	08-0	91	87-9	23-6	151	145-9	39-1	211	203-8	54-6	241	261-8	70-1
32	30-9	08-3	92	88-9	23-8	152	146-8	39-3	212	204-8	54-9	242	262-7	70-4
33	31-9	08-5	93	89-8	24-1	153	147-8	39-6	213	205-7	55-1	243	263-7	70-7
34	32-8	08-8	94	90-8	24-3	154	148-8	39-9	214	206-7	55-4	244	264-7	70-9
35	33-8	09-1	95	91-8	24-6	155	149-7	40-1	215	207-7	55-6	245	265-6	71-2
36	34-8	09-3	96	92-7	24-8	156	150-7	40-4	216	208-6	55-9	246	266-6	71-4
37	35-7	09-6	97	93-7	25-1	157	151-7	40-6	217	209-6	56-2	247	267-6	71-7
38	36-7	09-8	98	94-7	25-4	158	152-6	40-9	218	210-6	56-4	248	268-5	72-0
39	37-7	10-1	99	95-6	25-6	159	153-6	41-2	219	211-5	56-7	249	269-5	72-2
40	38-6	10-4	100	96-6	25-9	160	154-5	41-4	220	212-5	56-9	250	270-5	72-5
41	39-6	10-6	101	97-6	26-1	161	155-5	41-7	221	213-5	57-2	251	271-4	72-7
42	40-6	10-9	102	98-5	26-4	162	156-5	41-9	222	214-4	57-5	252	272-4	73-0
43	41-5	11-1	103	99-5	26-7	163	157-4	42-2	223	215-4	57-7	253	273-4	73-2
44	42-5	11-4	104	100-5	26-9	164	158-4	42-4	224	216-4	58-0	254	274-3	73-5
45	43-5	11-6	105	101-4	27-2	165	159-4	42-7	225	217-3	58-2	255	275-3	73-8
46	44-4	11-9	106	102-4	27-4	166	160-3	43-0	226	218-3	58-5	256	276-3	74-0
47	45-4	12-2	107	103-4	27-7	167	161-3	43-2	227	219-3	58-8	257	277-2	74-3
48	46-4	12-4	108	104-3	28-0	168	162-3	43-5	228	220-2	59-0	258	278-2	74-5
49	47-3	12-7	109	105-3	28-2	169	163-3	43-7	229	221-2	59-3	259	279-2	74-8
50	48-3	12-9	110	106-3	28-5	170	164-2	44-0	230	222-2	59-5	260	280-1	75-1
51	49-3	13-2	111	107-2	28-7	171	165-2	44-3	231	223-1	59-8	261	281-1	75-3
52	50-3	13-5	112	108-2	29-0	172	166-1	44-5	232	224-1	60-0	262	282-1	75-6
53	51-2	13-7	113	109-1	29-3	173	167-1	44-8	233	225-1	60-3	263	283-0	75-8
54	52-2	14-0	114	110-1	29-5	174	168-1	45-0	234	226-0	60-6	264	284-0	76-1
55	53-1	14-2	115	111-1	29-8	175	169-0	45-3	235	227-0	60-8	265	284-9	76-4
56	54-1	14-5	116	112-0	30-0	176	170-0	45-6	236	228-0	61-1	266	285-9	76-6
57	55-1	14-8	117	113-0	30-3	177	171-0	45-8	237	229-0	61-3	267	286-9	76-9
58	56-0	15-0	118	114-0	30-5	178	171-9	46-1	238	229-9	61-6	268	287-8	77-1
59	57-0	15-3	119	115-0	30-8	179	172-9	46-3	239	230-9	61-9	269	288-8	77-4
60	58-0	15-5	120	115-9	31-1	180	173-9	46-6	240	231-8	62-1	270	289-8	77-6
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 15°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-3	61	58-6	16-8	121	116-3	33-4	181	174-0	49-9	241	231-7	66-4
2	01-9	00-6	62	59-6	17-1	122	117-3	33-6	182	174-9	50-2	242	232-0	66-7
3	02-9	00-8	63	60-6	17-4	123	118-2	33-9	183	175-9	50-4	243	233-6	67-0
4	03-8	01-1	64	61-8	17-6	124	119-2	34-2	184	176-0	50-7	244	234-6	67-3
5	04-8	01-4	65	62-5	17-9	125	120-2	34-5	185	177-8	51-0	245	235-5	67-5
6	05-8	01-7	66	63-4	18-2	126	121-1	34-7	186	178-6	51-3	246	236-5	67-8
7	06-7	01-9	67	64-4	18-5	127	122-1	35-0	187	179-8	51-5	247	237-4	68-1
8	07-7	02-2	68	65-4	18-7	128	123-0	35-3	188	180-7	51-8	248	238-4	68-4
9	08-7	02-5	69	66-3	19-0	129	124-0	35-6	189	181-7	52-1	249	239-4	68-6
10	09-6	02-8	70	67-3	19-3	130	125-0	35-8	190	182-6	52-4	250	240-3	68-9
11	10-6	03-0	71	68-2	19-6	131	125-9	36-1	191	183-6	52-6	251	241-3	69-2
12	11-5	03-3	72	69-2	19-8	132	126-9	36-4	192	184-6	52-9	252	242-2	69-5
13	12-5	03-6	73	70-2	20-1	133	127-8	36-7	193	185-5	53-2	253	243-2	69-7
14	13-5	03-9	74	71-1	20-4	134	128-8	36-9	194	186-5	53-5	254	244-2	70-0
15	14-4	04-1	75	72-1	20-7	135	129-8	37-2	195	187-4	53-7	255	245-1	70-3
16	15-4	04-4	76	73-1	20-9	136	130-7	37-5	196	188-4	54-0	256	246-1	70-6
17	16-3	04-7	77	74-0	21-2	137	131-7	37-8	197	189-4	54-3	257	247-0	70-8
18	17-3	05-0	78	75-0	21-5	138	132-7	38-0	198	190-3	54-6	258	248-0	71-1
19	18-3	05-2	79	75-9	21-8	139	133-6	38-3	199	191-3	54-9	259	249-0	71-4
20	19-2	05-5	80	76-9	22-1	140	134-6	38-6	200	192-3	55-1	260	249-9	71-7
21	20-2	05-8	81	77-9	22-3	141	135-5	38-9	201	193-2	55-4	261	250-9	71-9
22	21-1	06-1	82	78-8	22-6	142	136-5	39-1	202	194-2	55-7	262	251-9	72-2
23	22-1	06-3	83	79-8	22-9	143	137-5	39-4	203	195-1	56-0	263	252-8	72-5
24	23-1	06-6	84	80-7	23-2	144	138-4	39-7	204	196-1	56-2	264	253-8	72-8
25	24-0	06-9	85	81-7	23-4	145	139-4	40-0	205	197-1	56-5	265	254-7	73-0
26	25-0	07-2	86	82-7	23-7	146	140-3	40-2	206	198-0	56-8	266	255-7	73-3
27	26-0	07-4	87	83-6	24-0	147	141-3	40-5	207	199-0	57-1	267	256-7	73-6
28	26-9	07-7	88	84-6	24-3	148	142-3	40-8	208	199-9	57-3	268	257-6	73-9
29	27-9	08-0	89	85-6	24-5	149	143-2	41-1	209	200-9	57-6	269	258-6	74-1
30	28-8	08-3	90	86-5	24-8	150	144-2	41-3	210	201-9	57-9	270	259-5	74-4
31	29-8	08-5	91	87-5	25-1	151	145-2	41-6	211	202-8	58-2	271	260-5	74-7
32	30-8	08-8	92	88-4	25-4	152	146-1	41-9	212	203-8	58-4	272	261-5	75-0
33	31-7	09-1	93	89-4	25-6	153	147-1	42-2	213	204-7	58-7	273	262-4	75-2
34	32-7	09-4	94	90-4	25-9	154	148-0	42-4	214	205-7	59-0	274	263-4	75-5
35	33-6	09-6	95	91-3	26-2	155	149-0	42-7	215	206-7	59-3	275	264-3	75-8
36	34-6	09-9	96	92-3	26-6	156	150-0	43-0	216	207-6	59-5	276	265-3	76-1
37	35-6	10-2	97	93-2	26-7	157	150-9	43-3	217	208-6	59-8	277	266-3	76-4
38	36-5	10-5	98	94-2	27-0	158	151-9	43-6	218	209-6	60-1	278	267-2	76-6
39	37-5	10-7	99	95-2	27-3	159	152-8	43-8	219	210-5	60-4	279	268-2	76-9
40	38-5	11-0	100	96-1	27-6	160	153-8	44-1	220	211-5	60-6	280	269-2	77-2
41	39-4	11-3	101	97-1	27-8	161	154-8	44-4	221	212-4	60-9	281	270-1	77-5
42	40-4	11-6	102	98-0	28-1	162	155-7	44-7	222	213-4	61-2	282	271-1	77-7
43	41-3	11-9	103	99-0	28-4	163	156-7	44-9	223	214-4	61-5	283	272-0	78-0
44	42-3	12-1	104	100-0	28-7	164	157-6	45-2	224	215-3	61-7	284	273-0	78-3
45	43-3	12-4	105	100-9	28-9	165	158-6	45-5	225	216-3	62-0	285	274-0	78-6
46	44-2	12-7	106	101-9	29-2	166	159-6	45-8	226	217-2	62-3	286	274-9	78-8
47	45-2	13-0	107	102-9	29-5	167	160-5	46-0	227	218-2	62-6	287	275-9	79-1
48	46-1	13-2	108	103-8	29-8	168	161-5	46-3	228	219-2	62-8	288	276-8	79-4
49	47-1	13-5	109	104-8	30-0	169	162-5	46-6	229	220-1	63-1	289	277-8	79-7
50	48-1	13-8	110	105-7	30-3	170	163-4	46-9	230	221-1	63-4	290	278-8	79-9
51	49-0	14-1	111	106-7	30-6	171	164-4	47-1	231	222-1	63-7	291	279-7	80-2
52	50-0	14-3	112	107-7	30-9	172	165-3	47-4	232	223-0	63-9	292	280-7	80-5
53	50-9	14-6	113	108-6	31-1	173	166-3	47-7	233	224-0	64-2	293	281-6	80-8
54	51-9	14-9	114	109-6	31-4	174	167-3	48-0	234	224-9	64-5	294	282-6	81-0
55	52-9	15-2	115	110-5	31-7	175	168-2	48-2	235	225-9	64-8	295	283-6	81-3
56	53-8	15-4	116	111-5	32-0	176	169-2	48-5	236	226-9	65-1	296	284-5	81-6
57	54-8	15-7	117	112-5	32-2	177	170-1	48-8	237	227-8	65-3	297	285-5	81-9
58	55-8	16-0	118	113-4	32-5	178	171-1	49-1	238	228-8	65-6	298	286-5	82-1
59	56-7	16-3	119	114-4	32-8	179	172-1	49-3	239	229-7	65-9	299	287-4	82-4
60	57-7	16-5	120	115-4	33-1	180	173-0	49-6	240	230-7	66-2	300	288-4	82-7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 17°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-3	61	58-3	17-8	121	113-7	35-4	181	173-1	52-9	241	230-5	70-5
2	01-0	00-6	62	59-3	18-1	122	116-7	35-7	182	174-0	53-2	242	231-4	70-8
3	02-9	00-9	63	60-2	18-4	123	117-6	36-0	183	175-0	53-5	243	232-1	71-0
4	03-8	01-2	61	61-2	18-7	124	118-6	36-3	184	176-0	53-8	244	233-3	71-3
5	04-8	01-5	65	62-2	19-0	125	119-5	36-5	185	176-9	54-1	245	231-3	71-6
6	05-7	01-8	66	63-1	19-3	126	120-5	36-8	186	177-9	54-4	246	235-3	71-9
7	06-7	02-0	67	64-1	19-6	127	121-5	37-1	187	178-8	54-7	247	230-2	72-2
8	07-7	02-3	68	65-0	19-9	128	122-4	37-4	188	179-8	55-0	248	237-2	72-5
9	08-6	02-6	69	66-0	20-2	129	123-4	37-7	189	180-7	55-3	249	238-1	72-8
10	09-6	02-9	70	66-9	20-5	130	124-3	38-0	190	181-7	55-6	250	239-1	73-1
11	10-5	03-2	71	67-9	20-8	131	125-3	38-3	191	182-7	55-9	251	240-0	73-4
12	11-5	03-5	72	68-9	21-1	132	126-2	38-6	192	183-6	56-1	252	241-0	73-7
13	12-4	03-8	73	69-8	21-3	133	127	38-9	193	184-6	56-4	253	241-9	74-0
14	13-4	04-1	74	70-8	21-6	134	128	39-2	194	185-5	56-7	254	242-9	74-3
15	14-3	04-4	75	71-7	21-9	135	129	39-5	195	186-5	57-0	255	243-9	74-6
16	15-3	04-7	76	72-7	22-2	136	130-1	39-8	196	187-4	57-3	256	244-8	74-8
17	16-3	05-0	77	73-6	22-5	137	131-0	40-1	197	188-4	57-6	257	245-8	75-1
18	17-2	05-3	78	74-6	22-8	138	132-0	40-3	198	189-3	57-9	258	246-7	75-4
19	18-2	05-6	79	75-5	23-1	139	132-9	40-6	199	190-3	58-2	259	247-7	75-7
20	19-1	05-8	80	76-5	23-4	140	133-9	40-9	200	191-3	58-5	260	248-6	76-0
21	20-1	06-1	81	77-5	23-7	141	134-8	41-2	201	192-2	58-8	261	249-6	76-3
22	21-0	06-4	82	78-4	24-0	142	135-8	41-5	202	193-2	59-1	262	250-6	76-6
23	22-0	06-7	83	79-4	24-3	143	136-8	41-8	203	194-1	59-4	263	251-5	76-9
24	23-0	07-0	84	80-3	24-6	144	137-7	42-1	204	195-1	59-6	264	252-5	77-2
25	23-9	07-3	85	81-3	24-9	145	138-7	42-4	205	196-0	59-9	265	253-4	77-5
26	24-9	07-6	86	82-2	25-1	146	139-6	42-7	206	197-0	60-2	266	254-4	77-8
27	25-8	07-9	87	83-2	25-4	147	140-6	43-0	207	198-0	60-5	267	255-3	78-1
28	26-8	08-2	88	84-2	25-7	148	141-5	43-3	208	198-9	60-8	268	256-3	78-4
29	27-7	08-5	89	85-1	26-0	149	142-5	43-6	209	199-9	61-1	269	257-2	78-6
30	28-7	08-8	90	86-1	26-3	150	143-4	43-9	210	200-8	61-4	270	258-2	78-9
31	29-6	09-1	91	87-0	26-6	151	144-4	44-1	211	201-8	61-7	271	259-2	79-2
32	30-6	09-4	92	88-0	26-9	152	145-4	44-4	212	202-7	62-0	272	260-1	79-5
33	31-6	09-6	93	88-9	27-2	153	146-3	44-7	213	203-7	62-3	273	261-1	79-8
34	32-5	09-9	94	89-9	27-5	154	147-3	45-0	214	204-6	62-6	274	262-0	80-1
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36	34-4	10-5	96	91-8	28-1	156	149-2	45-6	216	206-6	63-2	276	263-9	80-7
37	35-4	10-8	97	92-8	28-4	157	150-1	45-9	217	207-5	63-4	277	264-9	81-0
38	36-3	11-1	98	93-7	28-7	158	151-1	46-2	218	208-5	63-7	278	265-9	81-3
39	37-3	11-4	99	94-7	28-9	159	152-1	46-5	219	209-4	64-0	279	266-8	81-6
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41	39-2	12-0	101	96-6	29-5	161	154-0	47-1	221	211-3	64-6	281	268-7	82-2
42	40-2	12-3	102	97-5	29-8	162	154-9	47-4	222	212-3	64-9	282	269-7	82-4
43	41-1	12-6	103	98-5	30-1	163	155-9	47-7	223	213-3	65-2	283	270-6	82-7
44	42-1	12-9	104	99-5	30-4	164	156-8	47-9	224	214-2	65-5	284	271-5	83-0
45	43-0	13-2	105	100-4	30-7	165	157-8	48-2	225	215-2	65-8	285	272-5	83-3
46	44-0	13-4	106	101-4	31-0	166	158-7	48-5	226	216-1	66-1	286	273-5	83-6
47	44-9	13-7	107	102-3	31-3	167	159-7	48-8	227	217-1	66-4	287	274-5	83-9
48	45-9	14-0	108	103-3	31-6	168	160-7	49-1	228	218-0	66-7	288	275-4	84-2
49	46-9	14-3	109	104-2	31-9	169	161-6	49-4	229	219-0	67-0	289	276-4	84-5
50	47-8	14-6	110	105-2	32-2	170	162-6	49-7	230	220-0	67-3	290	277-3	84-8
51	48-8	14-9	111	106-1	32-5	171	163-5	50-0	231	220-0	67-5	291	278-3	85-1
52	49-7	15-2	112	107-1	32-7	172	164-5	50-3	232	221-9	67-8	292	279-2	85-4
53	50-7	15-5	113	108-1	33-0	173	165-4	50-6	233	222-8	68-1	293	280-2	85-7
54	51-6	15-8	114	109-0	33-3	174	166-4	50-9	234	223-8	68-4	294	281-2	86-0
55	52-6	16-1	115	110-0	33-6	175	167-4	51-2	235	224-7	68-7	295	282-1	86-2
56	53-6	16-4	116	110-9	33-9	176	168-3	51-5	236	225-7	69-0	296	283-1	86-5
57	54-5	16-7	117	111-9	34-2	177	169-3	51-7	237	226-6	69-3	297	284-0	86-8
58	55-5	17-0	118	112-8	34-5	178	170-2	52-0	238	227-6	69-6	298	285-0	87-1
59	56-4	17-2	119	113-8	34-8	179	171-2	52-3	239	228-6	69-9	299	285-9	87-4
60	57-4	17-5	120	114-8	35-1	180	172-1	52-6	240	229-5	70-2	300	286-9	87-7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

73°.

for 18°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	01-0	00-3	61	58-0	18-9	121	115-1	27-4	181	172-1	55-9	241	229-2	74-5
2	01-9	00-6	62	59-0	19-2	122	116-0	27-7	182	173-1	56-2	242	230-2	74-8
3	02-9	00-9	63	59-9	19-5	123	117-0	28-0	183	174-0	56-6	243	231-1	75-1
4	03-8	01-2	64	60-9	19-8	124	117-9	28-3	184	175-0	56-9	244	232-1	75-4
5	04-8	01-5	65	61-8	20-1	125	118-9	28-6	185	175-9	57-2	245	233-0	75-7
6	05-7	01-9	66	62-8	20-4	126	119-8	28-9	186	176-9	57-5	246	234-0	76-0
7	06-7	02-2	67	63-7	20-7	127	120-8	29-2	187	177-8	57-8	247	234-9	76-3
8	07-6	02-5	68	64-7	21-0	128	121-7	29-6	188	178-8	58-1	248	235-9	76-6
9	08-6	02-8	69	65-6	21-3	129	122-7	29-9	189	179-7	58-4	249	236-8	76-9
10	09-5	03-1	70	66-6	21-6	130	123-6	30-2	190	180-7	58-7	250	237-8	77-2
11	10-5	03-4	71	67-5	21-9	131	124-6	30-5	191	181-7	59-0	251	238-7	77-5
12	11-4	03-7	72	68-5	22-2	132	125-5	30-8	192	182-6	59-3	252	239-7	77-9
13	12-4	04-0	73	69-4	22-6	133	126-5	31-1	193	183-6	59-6	253	240-6	78-2
14	13-3	04-3	74	70-4	22-9	134	127-4	31-4	194	184-5	59-9	254	241-6	78-5
15	14-3	04-6	75	71-3	23-2	135	128-4	31-7	195	185-5	60-3	255	242-5	78-8
16	15-2	04-9	76	72-3	23-5	136	129-3	32-0	196	186-4	60-6	256	243-5	79-1
17	16-2	05-3	77	73-2	23-8	137	130-3	32-3	197	187-4	60-9	257	244-4	79-4
18	17-1	05-6	78	74-2	24-1	138	131-2	32-6	198	188-3	61-2	258	245-4	79-7
19	18-1	05-9	79	75-1	24-4	139	132-2	32-9	199	189-3	61-5	259	246-3	80-0
20	19-0	06-2	80	76-1	24-7	140	133-1	33-3	200	190-2	61-8	260	247-3	80-3
21	20-0	06-5	81	77-0	25-0	141	134-1	33-6	201	191-2	62-1	261	248-2	80-7
22	20-9	06-8	82	78-0	25-3	142	135-1	33-9	202	192-1	62-4	262	249-2	81-0
23	21-9	07-1	83	78-9	25-6	143	136-0	34-2	203	193-1	62-7	263	250-1	81-3
24	22-8	07-4	84	79-9	25-9	144	137-0	34-5	204	194-0	63-0	264	251-1	81-6
25	23-8	07-7	85	80-8	26-3	145	137-9	34-8	205	195-0	63-3	265	252-0	81-9
26	24-7	08-0	86	81-8	26-6	146	138-9	35-1	206	195-9	63-7	266	253-0	82-2
27	25-7	08-3	87	82-7	26-9	147	139-8	35-4	207	196-9	64-0	267	253-9	82-5
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33	31-4	10-2	93	88-4	28-7	153	145-5	37-3	213	202-6	65-8	273	259-6	84-4
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35	33-3	10-8	95	90-4	29-4	155	147-4	37-9	215	204-5	66-4	275	261-5	85-0
36	34-2	11-1	96	91-3	29-7	156	148-4	38-2	216	205-4	66-7	276	262-5	85-3
37	35-2	11-4	97	92-3	30-0	157	149-3	38-5	217	206-4	67-1	277	263-4	85-6
38	36-1	11-7	98	93-2	30-3	158	150-3	38-8	218	207-3	67-4	278	264-4	85-9
39	37-1	12-1	99	94-2	30-6	159	151-2	39-1	219	208-3	67-7	279	265-3	86-2
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41	39-0	12-7	101	96-1	31-2	161	153-1	39-8	221	210-2	68-3	281	267-2	86-8
42	39-9	13-0	102	97-0	31-5	162	154-1	50-1	222	211-1	68-6	282	268-2	87-1
43	40-9	13-3	103	98-0	31-8	163	155-0	50-4	223	212-1	68-9	283	269-1	87-5
44	41-8	13-6	104	98-9	32-1	164	156-0	50-7	224	213-0	69-2	284	270-1	87-8
45	42-8	13-9	105	99-9	32-4	165	156-9	51-0	225	214-0	69-5	285	271-1	88-1
46	43-7	14-2	106	100-8	32-8	166	157-9	51-3	226	214-9	69-8	286	272-0	88-4
47	44-7	14-5	107	101-8	33-1	167	158-8	51-6	227	215-9	70-1	287	273-0	88-7
48	45-7	14-8	108	102-7	33-4	168	159-8	51-9	228	216-8	70-5	288	273-9	89-0
49	46-6	15-1	109	103-7	33-7	169	160-7	52-2	229	217-8	70-8	289	274-9	89-3
50	47-6	15-5	110	104-6	34-0	170	161-7	52-5	230	218-7	71-1	290	275-8	89-6
51	48-5	15-8	111	105-6	34-3	171	162-6	52-8	231	219-7	71-4	291	276-8	89-9
52	49-5	16-1	112	106-5	34-6	172	163-6	53-2	232	220-6	71-7	292	277-7	90-2
53	50-4	16-4	113	107-5	34-9	173	164-5	53-5	233	221-6	72-0	293	278-7	90-5
54	51-4	16-7	114	108-4	35-2	174	165-5	53-8	234	222-5	72-3	294	279-6	90-9
55	52-3	17-0	115	109-4	35-5	175	166-4	54-1	235	223-5	72-6	295	280-6	91-2
56	53-3	17-3	116	110-3	35-8	176	167-4	54-4	236	224-4	72-9	296	281-5	91-5
57	54-2	17-6	117	111-3	36-2	177	168-3	54-7	237	225-4	73-2	297	282-5	91-8
58	55-2	17-9	118	112-2	36-5	178	169-3	55-0	238	226-4	73-5	298	283-4	92-1
59	56-1	18-2	119	113-2	36-8	179	170-3	55-3	239	227-3	73-8	299	284-4	92-4
60	57-1	18-5	120	114-1	37-1	180	171-2	55-6	240	228-3	74-2	300	285-3	92-7

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-3	61	57-7	19-9	121	114-4	39-4	181	171-1	58-9	241	227-9	78-5
2	01-9	00-7	62	58-6	20-2	122	115-4	39-7	182	172-1	59-3	242	228-8	78-8
3	02-8	01-0	63	59-6	20-5	123	116-3	40-0	183	173-0	59-6	243	229-8	79-1
4	03-8	01-3	64	60-5	20-8	124	117-2	40-4	184	174-0	59-9	244	230-7	79-4
5	04-7	01-6	65	61-5	21-2	125	118-2	40-7	185	174-9	60-2	245	231-7	79-8
6	05-7	02-0	66	62-4	21-5	126	119-1	41-0	186	175-9	60-6	246	232-6	80-1
7	06-6	02-3	67	63-3	21-8	127	120-1	41-3	187	176-8	60-9	247	233-5	80-4
8	07-6	02-6	68	64-3	22-1	128	121-0	41-7	188	177-8	61-2	248	234-5	80-7
9	08-5	02-9	69	65-2	22-5	129	122-0	42-0	189	178-7	61-5	249	235-4	81-1
10	09-5	03-3	70	66-2	22-8	130	122-9	42-3	190	179-6	61-9	250	236-4	81-4
11	10-4	03-6	71	67-1	23-1	131	123-9	42-6	191	180-6	62-2	251	237-3	81-7
12	11-3	03-9	72	68-1	23-4	132	124-8	42-9	192	181-5	62-5	252	238-3	82-0
13	12-3	04-2	73	69-0	23-8	133	125-8	43-2	193	182-5	62-8	253	239-2	82-4
14	13-2	04-6	74	70-0	24-1	134	126-7	43-6	194	183-4	63-2	254	240-2	82-7
15	14-2	04-9	75	70-9	24-4	135	127-6	44-0	195	184-4	63-5	255	241-1	83-0
16	15-1	05-2	76	71-9	24-7	136	128-6	44-3	196	185-3	63-8	256	242-1	83-3
17	16-1	05-5	77	72-8	25-1	137	129-5	44-6	197	186-3	64-1	257	243-0	83-7
18	17-0	05-9	78	73-8	25-4	138	130-5	44-9	198	187-2	64-5	258	243-9	84-0
19	18-0	06-2	79	74-7	25-7	139	131-4	45-3	199	188-2	64-8	259	244-9	84-3
20	19-0	06-5	80	75-6	26-0	140	132-4	45-6	200	189-1	65-1	260	245-8	84-6
21	19-9	06-8	81	76-6	26-4	141	133-3	45-9	201	190-0	65-4	261	246-8	85-0
22	20-8	07-2	82	77-5	26-7	142	134-3	46-2	202	191-0	65-8	262	247-7	85-3
23	21-7	07-5	83	78-5	27-0	143	135-2	46-6	203	191-9	66-1	263	248-7	85-6
24	22-7	07-8	84	79-4	27-3	144	136-2	46-9	204	192-9	66-4	264	249-6	86-0
25	23-6	08-1	85	80-4	27-7	145	137-1	47-2	205	193-8	66-7	265	250-6	86-3
26	24-6	08-5	86	81-3	28-0	146	138-0	47-5	206	194-8	67-1	266	251-5	86-6
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39	36-9	12-7	99	93-6	32-2	159	150-3	51-8	219	207-1	71-3	279	263-8	90-8
40	37-8	13-0	100	94-6	32-6	160	151-3	52-1	220	208-0	71-6	280	264-7	91-2
41	38-8	13-3	101	95-5	32-9	161	152-2	52-4	221	209-0	72-0	281	265-7	91-5
42	39-7	13-7	102	96-4	33-2	162	153-2	52-7	222	209-9	72-3	282	266-6	91-8
43	40-7	14-0	103	97-4	33-5	163	154-1	53-1	223	210-9	72-6	283	267-6	92-1
44	41-6	14-3	104	98-3	33-9	164	155-1	53-4	224	211-8	72-9	284	268-5	92-5
45	42-5	14-7	105	99-3	34-2	165	156-0	53-7	225	212-7	73-3	285	269-5	92-8
46	43-5	15-0	106	100-2	34-5	166	157-0	54-0	226	213-7	73-6	286	270-4	93-1
47	44-4	15-3	107	101-2	34-8	167	157-9	54-4	227	214-6	73-9	287	271-4	93-4
48	45-4	15-6	108	102-1	35-2	168	158-8	54-7	228	215-6	74-2	288	272-3	93-8
49	46-3	16-0	109	103-1	35-5	169	159-8	55-0	229	216-5	74-6	289	273-3	94-1
50	47-3	16-3	110	104-0	35-8	170	160-7	55-3	230	217-5	74-9	290	274-2	94-4
51	48-2	16-6	111	105-0	36-1	171	161-7	55-7	231	218-4	75-2	291	275-1	94-7
52	49-2	16-9	112	105-9	36-5	172	162-6	56-0	232	219-4	75-5	292	276-1	95-1
53	50-1	17-3	113	106-8	36-8	173	163-6	56-3	233	220-3	75-9	293	277-0	95-4
54	51-1	17-6	114	107-8	37-1	174	164-5	56-6	234	221-3	76-2	294	278-0	95-7
55	52-0	17-9	115	108-7	37-4	175	165-5	57-0	235	222-2	76-5	295	279-0	96-0
56	52-9	18-2	116	109-7	37-8	176	166-4	57-3	236	223-1	76-8	296	279-9	96-4
57	53-9	18-6	117	110-6	38-1	177	167-4	57-6	237	224-1	77-2	297	280-8	96-7
58	54-8	18-9	118	111-6	38-4	178	168-3	58-0	238	225-0	77-5	298	281-8	97-0
59	55-8	19-2	119	112-5	38-7	179	169-3	58-3	239	226-0	77-8	299	282-7	97-3
60	56-7	19-5	120	113-5	39-1	180	170-2	58-6	240	226-9	78-1	300	283-7	97-7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 20°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-3	61	87-3	20-9	121	113-7	41-4	181	170-1	61-9	241	226-3	82-4
2	01-9	00-7	62	88-3	21-2	122	114-6	41-7	182	171-0	62-2	242	227-4	82-8
3	02-8	01-0	63	89-2	21-5	123	115-6	42-1	183	172-0	62-6	243	228-3	83-1
4	03-8	01-4	64	90-1	21-9	124	116-5	42-4	184	172-9	62-9	244	229-3	83-5
5	04-7	01-7	65	91-1	22-2	125	117-5	42-8	185	173-8	63-3	245	230-2	83-8
6	05-6	02-1	66	92-0	22-6	126	118-1	43-1	186	174-8	63-6	246	231-2	84-1
7	06-6	02-4	67	93-0	22-9	127	119-3	43-4	187	175-7	64-0	247	232-1	84-5
8	07-5	02-7	68	93-9	23-3	128	120-3	43-8	188	176-7	64-3	248	233-0	84-8
9	08-5	03-1	69	94-8	23-6	129	121-2	44-1	189	177-6	64-6	249	234-0	85-2
10	09-4	03-4	70	95-8	23-9	130	122-2	44-5	190	178-5	65-0	250	234-9	85-5
11	10-3	03-8	71	96-7	24-3	131	123-1	44-8	191	179-5	65-3	251	235-9	85-8
12	11-3	04-1	72	97-7	24-6	132	124-0	45-1	192	180-4	65-7	252	236-8	86-2
13	12-2	04-4	73	98-6	25-0	133	125-0	45-5	193	181-4	66-0	253	237-7	86-5
14	13-2	04-8	74	99-5	25-3	134	125-9	45-8	194	182-3	66-4	254	238-7	86-9
15	14-1	05-1	75	70-5	25-7	135	126-9	46-2	195	183-2	66-7	255	239-6	87-2
16	15-0	05-5	76	71-4	26-0	136	127-8	46-5	196	184-2	67-0	256	240-6	87-6
17	16-0	05-8	77	72-4	26-3	137	128-7	46-9	197	185-1	67-4	257	241-5	87-9
18	16-9	06-2	78	73-3	26-7	138	129-7	47-2	198	186-1	67-7	258	242-4	88-2
19	17-9	06-5	79	74-2	27-0	139	130-6	47-5	199	187-0	68-1	259	243-4	88-6
20	18-8	06-8	80	75-2	27-4	140	131-6	47-9	200	187-9	68-4	260	244-3	88-9
21	19-7	07-2	81	76-1	27-7	141	132-5	48-2	201	188-9	68-7	261	245-3	89-2
22	20-7	07-5	82	77-1	28-0	142	133-4	48-6	202	189-8	69-1	262	246-2	89-6
23	21-6	07-9	83	78-0	28-4	143	134-1	48-9	203	190-8	69-4	263	247-1	90-0
24	22-6	08-2	84	78-0	28-7	144	135-3	49-3	204	191-7	69-8	264	248-1	90-3
25	23-5	08-6	85	79-0	29-1	145	136-3	49-6	205	192-6	70-1	265	249-0	90-6
26	24-4	08-9	86	80-8	29-4	146	137-2	49-9	206	193-6	70-5	266	250-0	91-0
27	25-4	09-2	87	81-8	29-8	147	138-1	50-3	207	194-5	70-8	267	250-9	91-3
28	26-3	09-6	88	82-7	30-1	148	139-1	50-6	208	195-5	71-1	268	251-8	91-7
29	27-3	09-9	89	83-6	30-4	149	140-0	51-0	209	196-4	71-5	269	252-8	92-0
30	28-2	10-3	90	84-6	30-8	150	141-0	51-3	210	197-3	71-8	270	253-7	92-3
31	29-1	10-6	91	85-5	31-1	151	141-9	51-6	211	198-3	72-2	271	254-7	92-7
32	30-1	10-9	92	86-5	31-5	152	142-8	52-0	212	199-2	72-5	272	255-6	93-0
33	31-0	11-3	93	87-4	31-8	153	143-8	52-3	213	200-2	72-9	273	256-5	93-4
34	31-9	11-6	94	88-3	32-1	154	144-7	52-7	214	201-1	73-2	274	257-5	93-7
35	32-9	12-0	95	89-3	32-5	155	145-7	53-0	215	202-0	73-5	275	258-4	94-1
36	33-8	12-3	96	90-2	32-8	156	146-6	53-4	216	203-0	73-9	276	259-4	94-4
37	34-8	12-7	97	91-2	33-2	157	147-5	53-7	217	203-9	74-2	277	260-3	94-7
38	35-7	13-0	98	92-1	33-5	158	148-5	54-0	218	204-9	74-6	278	261-2	95-1
39	36-6	13-3	99	93-0	33-9	159	149-4	54-4	219	205-8	74-9	279	262-2	95-4
40	37-6	13-7	100	94-0	34-2	160	150-4	54-7	220	206-7	75-2	280	263-1	95-8
41	38-5	14-0	101	94-9	34-5	161	151-3	55-1	221	207-7	75-6	281	264-1	96-1
42	39-5	14-4	102	95-8	34-9	162	152-2	55-4	222	208-6	75-9	282	265-0	96-4
43	40-4	14-7	103	96-8	35-2	163	153-2	55-7	223	209-6	76-3	283	265-9	96-8
44	41-3	15-0	104	97-7	35-6	164	154-1	56-1	224	210-5	76-6	284	266-9	97-1
45	42-3	15-4	105	98-7	35-9	165	155-0	56-4	225	211-4	77-0	285	267-8	97-5
46	43-2	15-7	106	99-6	36-3	166	156-0	56-8	226	212-4	77-3	286	268-8	97-8
47	44-2	16-1	107	100-5	36-6	167	156-9	57-1	227	213-3	77-6	287	269-7	98-2
48	45-1	16-4	108	101-5	36-9	168	157-9	57-5	228	214-2	78-0	288	270-6	98-5
49	46-0	16-8	109	102-4	37-3	169	158-8	57-8	229	215-2	78-3	289	271-6	98-8
50	47-0	17-1	110	103-4	37-6	170	159-7	58-1	230	216-1	78-7	290	272-5	99-2
51	47-9	17-4	111	104-3	38-0	171	160-7	58-5	231	217-1	79-0	291	273-5	99-5
52	48-9	17-8	112	105-2	38-3	172	161-6	58-8	232	218-0	79-3	292	274-4	99-9
53	49-8	18-1	113	106-2	38-6	173	162-6	59-2	233	218-9	79-7	293	275-3	100-2
54	50-7	18-5	114	107-1	39-0	174	163-5	59-5	234	219-9	80-0	294	276-3	100-6
55	51-7	18-8	115	108-1	39-3	175	164-4	59-9	235	220-8	80-4	295	277-2	100-9
56	52-6	19-2	116	109-0	39-7	176	165-4	60-2	236	221-8	80-7	296	278-1	101-2
57	53-6	19-5	117	109-9	40-0	177	166-3	60-6	237	222-7	81-1	297	279-1	101-6
58	54-5	19-8	118	110-9	40-4	178	167-3	60-9	238	223-6	81-4	298	280-0	101-9
59	55-4	20-2	119	111-8	40-7	179	168-2	61-2	239	224-6	81-7	299	281-0	102-3
60	56-4	20-5	120	112-8	41-0	180	169-1	61-6	240	225-5	82-1	300	282-0	102-6
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00°0	00.4	61	56°9	21.9	121	113°0	43.4	181	169°0	64.9	241	225°0	86.4
2	01°9	00.7	62	57°9	22.2	122	113°9	43.7	182	169°9	65.2	242	225°9	86.7
3	02°8	01.1	63	58°8	22.6	123	114°8	44.1	183	170°8	65.6	243	226°9	87.1
4	03°7	01.4	64	59°7	22.9	124	115°8	44.4	184	171°8	65.9	244	227°8	87.4
5	04°7	01.8	65	60°7	23.3	125	116°7	44.9	185	172°7	66.3	245	228°7	87.8
6	05°6	02.2	66	61°6	23.7	126	117°6	45.2	186	173°6	66.7	246	229°6	88.2
7	06°5	02.5	67	62°5	24.0	127	118°5	45.5	187	174°5	67.0	247	230°5	88.5
8	07°5	02.9	68	63°5	24.4	128	119°5	45.9	188	175°5	67.4	248	231°5	88.9
9	08°4	03.2	69	64°4	24.7	129	120°4	46.2	189	176°4	67.7	249	232°4	89.2
10	09°3	03.6	70	65°3	25.1	130	121°3	46.6	190	177°3	68.1	250	233°3	89.6
11	10°3	03.9	71	66°3	25.4	131	122°3	46.9	191	178°3	68.4	251	234°3	90.0
12	11°2	04.3	72	67°2	25.8	132	123°2	47	192	179°2	68.8	252	235°2	90.3
13	12°1	04.7	73	68°2	26.2	133	124°2	47.4	193	180°2	69.2	253	236°2	90.7
14	13°1	05.0	74	69°1	26.5	134	125°1	47.7	194	181°1	69.5	254	237°1	91.0
15	14°0	05.4	75	70°0	26.9	135	126°0	48.1	195	182°0	69.9	255	238°0	91.4
16	14°9	05.7	76	71°0	27.2	136	127°0	48.4	196	183°0	70.2	256	239°0	91.7
17	15°9	06.1	77	71°9	27.6	137	127°9	48.7	197	183°9	70.6	257	239°9	92.1
18	16°8	06.5	78	72°8	28.0	138	128°8	49.1	198	184°8	71.0	258	240°8	92.5
19	17°7	06.8	79	73°8	28.3	139	129°8	49.4	199	185°8	71.3	259	241°8	92.8
20	18°7	07.2	80	74°7	28.7	140	130°7	49.8	200	186°7	71.7	260	242°7	93.2
21	19°6	07.5	81	75°6	29.0	141	131°6	50.1	201	187°6	72.0	261	243°6	93.5
22	20°5	07.9	82	76°5	29.4	142	132°5	50.5	202	188°5	72.4	262	244°5	93.9
23	21°5	08.2	83	77°5	29.7	143	133°5	51.2	203	189°5	72.7	263	245°5	94.3
24	22°4	08.6	84	78°4	30.1	144	134°4	51.6	204	190°4	73.1	264	246°4	94.6
25	23°3	09.0	85	79°3	30.5	145	135°3	52.0	205	191°3	73.5	265	247°3	95.0
26	24°3	09.3	86	80°3	30.8	146	136°3	52.3	206	192°3	73.8	266	248°3	95.3
27	25°2	09.7	87	81°2	31.2	147	137°2	52.7	207	193°2	74.2	267	249°2	95.7
28	26°1	10.0	88	82°2	31.5	148	138°2	53.0	208	194°2	74.5	268	250°2	96.0
29	27°1	10.4	89	83°1	31.9	149	139°1	53.4	209	195°1	74.9	269	251°1	96.4
30	28°0	10°8	90	84°0	32.3	150	140°0	53.8	210	196°0	75.3	270	252°0	96.8
31	28°9	11°1	91	85°0	32.6	151	141°0	54.1	211	197°0	75.6	271	253°0	97.1
32	29°9	11°5	92	85°9	33.0	152	141°9	54.5	212	197°9	76.0	272	253°9	97.5
33	30°8	11°8	93	86°8	33.3	153	142°8	54.8	213	198°8	76.3	273	254°8	97.8
34	31°7	12°2	94	87°8	33.7	154	143°8	55.2	214	199°8	76.7	274	255°8	98.2
35	32°7	12°5	95	88°7	34.0	155	144°7	55.5	215	200°7	77.0	275	256°7	98.6
36	33°6	12°9	96	89°6	34.4	156	145°6	55.9	216	201°6	77.4	276	257°6	98.9
37	34°5	13°3	97	90°6	34.8	157	146°6	56.3	217	202°6	77.8	277	258°6	99.3
38	35°5	13°6	98	91°5	35.1	158	147°5	56.6	218	203°5	78.1	278	259°5	99.6
39	36°4	14°0	99	92°4	35.5	159	148°4	57.0	219	204°4	78.5	279	260°4	100.0
40	37°3	14°3	100	93°4	35.8	160	149°4	57.3	220	205°4	78.8	280	261°4	100.3
41	38°3	14°7	101	94°3	36.2	161	150°3	57.7	221	206°3	79.2	281	262°3	100.7
42	39°2	15°1	102	95°2	36.6	162	151°2	58.1	222	207°3	79.6	282	263°3	101.1
43	40°1	15°4	103	96°2	36.9	163	152°2	58.4	223	208°2	79.9	283	264°2	101.4
44	41°1	15°8	104	97°1	37.3	164	153°1	58.8	224	209°1	80.3	284	265°1	101.8
45	42°0	16°1	105	98°0	37.6	165	154°0	59.1	225	210°1	80.6	285	266°1	102.1
46	42°9	16°5	106	99°0	38.0	166	155°0	59.5	226	211°0	81.0	286	267°0	102.5
47	43°9	16°8	107	99°9	38.3	167	155°9	59.8	227	211°9	81.3	287	267°9	102.9
48	44°8	17°2	108	100°8	38.7	168	156°8	60.2	228	212°9	81.7	288	268°9	103.2
49	45°7	17°6	109	101°8	39.1	169	157°8	60.6	229	213°8	82.1	289	269°8	103.6
50	46°7	17°9	110	102°7	39.4	170	158°7	60.9	230	214°7	82.4	290	270°7	103.9
51	47°6	18°3	111	103°6	39.8	171	159°6	61.3	231	215°6	82.8	291	271°6	104.3
52	48°5	18°6	112	104°6	40.1	172	160°6	61.6	232	216°6	83.1	292	272°6	104.6
53	49°5	19°0	113	105°5	40.5	173	161°5	62.0	233	217°5	83.5	293	273°5	105.0
54	50°4	19°4	114	106°4	40.9	174	162°4	62.4	234	218°4	83.9	294	274°4	105.4
55	51°3	19°7	115	107°4	41.2	175	163°4	62.7	235	219°4	84.2	295	275°4	105.7
56	52°3	20°1	116	108°3	41.6	176	164°3	63.1	236	220°3	84.6	296	276°3	106.1
57	53°2	20°4	117	109°2	41.9	177	165°3	63.4	237	221°3	84.9	297	277°3	106.4
58	54°1	20°8	118	110°2	42.3	178	166°2	63.8	238	222°2	85.3	298	278°2	106.8
59	55°1	21°1	119	111°1	42.6	179	167°1	64.1	239	223°1	85.6	299	279°1	107.2
60	56°0	21°5	120	112°0	43.0	180	168°0	64.5	240	224°1	86.0	300	280°1	107.5

Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
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DIFFERENCE OF LATITUDE AND DEPARTURE.

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For 22°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.9	00.4	61	56.6	22.9	121	112.2	45.3	181	167.8	67.8	241	223.5	90.3
2	01.9	00.7	62	57.5	23.2	122	113.1	45.7	182	168.7	68.2	242	224.4	90.7
3	02.8	01.1	63	58.4	23.6	123	114.0	46.1	183	169.7	68.6	243	225.3	91.0
4	03.7	01.5	64	59.3	24.0	124	115.0	46.5	184	170.6	68.9	244	226.2	91.4
5	04.6	01.9	65	60.3	24.3	125	115.9	46.8	185	171.5	69.3	245	227.2	91.8
6	05.6	02.2	66	61.2	24.7	126	116.8	47.2	186	172.5	69.7	246	228.1	92.2
7	06.5	02.6	67	62.1	25.1	127	117.8	47.6	187	173.4	70.1	247	229.0	92.5
8	07.4	03.0	68	63.0	25.5	128	118.7	47.9	188	174.3	70.4	248	229.9	92.9
9	08.3	03.4	69	64.0	25.8	129	119.6	48.3	189	175.2	70.8	249	230.0	93.3
10	09.3	03.7	70	64.9	26.2	130	120.5	48.7	190	176.2	71.2	250	231.8	93.7
11	10.2	04.1	71	65.8	26.6	131	121.5	49.1	191	177.1	71.5	251	232.7	94.0
12	11.1	04.5	72	66.8	27.0	132	122.4	49.4	192	178.0	71.9	252	233.7	94.4
13	12.1	04.9	73	67.7	27.3	133	123.3	49.8	193	178.9	72.3	253	234.6	94.8
14	13.0	05.2	74	68.6	27.7	134	124.2	50.2	194	179.9	72.7	254	235.5	95.2
15	13.9	05.6	75	69.5	28.1	135	125.2	50.6	195	180.8	73.0	255	236.4	95.5
16	14.8	06.0	76	70.5	28.5	136	126.1	50.9	196	181.7	73.4	256	237.4	95.9
17	15.8	06.4	77	71.4	28.8	137	127.0	51.3	197	182.7	73.8	257	238.3	96.3
18	16.7	06.7	78	72.3	29.2	138	128.0	51.7	198	183.6	74.2	258	239.2	96.6
19	17.6	07.1	79	73.2	29.6	139	128.9	52.1	199	184.5	74.5	259	240.1	97.0
20	18.5	07.5	80	74.2	30.0	140	129.8	52.4	200	185.4	74.9	260	241.1	97.4
21	19.5	07.9	81	75.1	30.3	141	130.7	52.8	201	186.4	75.3	261	242.0	97.8
22	20.4	08.2	82	76.0	30.7	142	131.7	53.2	202	187.3	75.7	262	242.9	98.1
23	21.3	08.6	83	77.0	31.1	143	132.6	53.6	203	188.2	76.0	263	243.8	98.5
24	22.3	09.0	84	77.9	31.5	144	133.5	53.9	204	189.1	76.4	264	244.8	98.9
25	23.2	09.4	85	78.8	31.8	145	134.4	54.3	205	190.1	76.8	265	245.7	99.3
26	24.1	09.7	86	79.7	32.2	146	135.4	54.7	206	191.0	77.2	266	246.6	99.6
27	25.0	10.1	87	80.7	32.6	147	136.3	55.1	207	191.9	77.5	267	247.5	100.0
28	26.0	10.5	88	81.6	33.0	148	137.2	55.4	208	192.9	77.9	268	248.5	100.4
29	26.9	10.9	89	82.5	33.3	149	138.2	55.8	209	193.8	78.3	269	249.4	100.8
30	27.8	11.2	90	83.4	33.7	150	139.1	56.2	210	194.7	78.7	270	250.3	101.1
31	28.7	11.6	91	84.4	34.1	151	140.0	56.6	211	195.6	79.0	271	251.3	101.5
32	29.7	12.0	92	85.3	34.5	152	140.9	56.9	212	196.6	79.4	272	252.2	101.9
33	30.6	12.4	93	86.2	34.8	153	141.9	57.3	213	197.5	79.8	273	253.1	102.3
34	31.5	12.7	94	87.2	35.2	154	142.8	57.7	214	198.4	80.2	274	254.0	102.6
35	32.5	13.1	95	88.1	35.6	155	143.7	58.1	215	199.3	80.5	275	255.0	103.0
36	33.4	13.5	96	89.0	36.0	156	144.6	58.4	216	200.3	80.9	276	255.9	103.4
37	34.3	13.9	97	89.9	36.3	157	145.6	58.8	217	201.2	81.3	277	256.8	103.8
38	35.2	14.2	98	90.9	36.7	158	146.5	59.2	218	202.1	81.7	278	257.8	104.1
39	36.2	14.6	99	91.8	37.1	159	147.4	59.6	219	203.1	82.0	279	258.7	104.5
40	37.1	15.0	100	92.7	37.5	160	148.3	59.9	220	204.0	82.4	280	259.6	104.9
41	38.0	15.4	101	93.6	37.8	161	149.3	60.3	221	204.9	82.8	281	260.5	105.2
42	38.9	15.7	102	94.6	38.2	162	150.2	60.7	222	205.8	83.2	282	261.5	105.6
43	39.9	16.1	103	95.5	38.6	163	151.1	61.1	223	206.8	83.5	283	262.4	106.0
44	40.8	16.5	104	96.4	39.0	164	152.1	61.4	224	207.7	83.9	284	263.3	106.4
45	41.7	16.9	105	97.4	39.3	165	153.0	61.8	225	208.6	84.3	285	264.2	106.8
46	42.7	17.2	106	98.3	39.7	166	153.9	62.2	226	209.5	84.7	286	265.2	107.1
47	43.6	17.6	107	99.2	40.1	167	154.8	62.6	227	210.5	85.0	287	266.1	107.5
48	44.5	18.0	108	100.1	40.5	168	155.8	62.9	228	211.4	85.4	288	267.0	107.9
49	45.4	18.4	109	101.1	40.8	169	156.7	63.3	229	212.3	85.8	289	268.0	108.3
50	46.4	18.7	110	102.0	41.2	170	157.6	63.7	230	213.3	86.2	290	268.9	108.6
51	47.3	19.1	111	102.9	41.6	171	158.5	64.1	231	214.2	86.5	291	269.8	109.0
52	48.2	19.5	112	103.8	42.0	172	159.5	64.4	232	215.1	86.9	292	270.7	109.4
53	49.1	19.9	113	104.8	42.3	173	160.4	64.8	233	216.0	87.3	293	271.7	109.8
54	50.1	20.2	114	105.7	42.7	174	161.3	65.2	234	217.0	87.7	294	272.6	110.1
55	51.0	20.6	115	106.6	43.1	175	162.3	65.6	235	217.9	88.0	295	273.6	110.5
56	51.9	21.0	116	107.6	43.5	176	163.2	65.9	236	218.8	88.4	296	274.5	110.9
57	52.8	21.4	117	108.5	43.8	177	164.1	66.3	237	219.7	88.8	297	275.4	111.3
58	53.8	21.7	118	109.4	44.2	178	165.0	66.7	238	220.7	89.2	298	276.3	111.6
59	54.7	22.1	119	110.3	44.6	179	166.0	67.1	239	221.6	89.5	299	277.2	112.0
60	55.6	22.5	120	111.3	45.0	180	166.9	67.4	240	222.5	89.9	300	278.2	112.4

Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.
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65°.

For 23'.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-4	61	56-2	23-8	121	111-4	47-3	181	106-6	70-7	241	92-8	94-2
2	01-8	00-8	62	57-1	24-2	122	112-3	47-7	182	107-5	71-1	242	93-8	94-6
3	02-8	01-2	63	58-0	24-6	123	113-2	48-1	183	108-5	71-5	243	94-7	94-9
4	03-7	01-6	64	58-9	25-0	124	114-1	48-5	184	109-4	71-9	244	95-6	95-3
5	04-6	02-0	65	59-8	25-4	125	115-1	48-8	185	110-3	72-3	245	96-5	95-7
6	05-5	02-3	66	60-8	25-8	126	116-0	49-2	186	111-2	72-7	246	97-4	96-1
7	06-4	02-7	67	61-7	26-2	127	116-9	49-6	187	112-1	73-1	247	98-3	96-5
8	07-4	03-1	68	62-6	26-6	128	117-8	50-0	188	113-1	73-5	248	99-2	96-9
9	08-3	03-5	69	63-5	27-0	129	118-7	50-4	189	114-0	73-8	249	100-1	97-3
10	09-2	03-9	70	64-4	27-4	130	119-7	50-8	190	114-9	74-2	250	101-0	97-7
11	10-1	04-3	71	65-4	27-7	131	120-6	51-2	191	115-8	74-6	251	101-9	98-1
12	11-0	04-7	72	66-3	28-1	132	121-5	51-6	192	116-7	75-0	252	102-8	98-5
13	12-0	05-1	73	67-2	28-5	133	122-4	52-0	193	117-6	75-4	253	103-7	98-9
14	12-9	05-5	74	68-1	28-9	134	123-3	52-4	194	118-5	75-8	254	104-6	99-2
15	13-8	05-9	75	69-0	29-3	135	124-2	52-8	195	119-4	76-2	255	105-5	99-6
16	14-7	06-3	76	70-0	29-7	136	125-2	53-1	196	120-3	76-6	256	106-4	100-0
17	15-6	06-7	77	70-9	30-1	137	126-1	53-5	197	121-2	77-0	257	107-3	100-4
18	16-6	07-0	78	71-8	30-5	138	127-0	53-9	198	122-1	77-4	258	108-2	100-8
19	17-5	07-4	79	72-7	30-9	139	128-0	54-3	199	123-0	77-8	259	109-1	101-2
20	18-4	07-8	80	73-6	31-3	140	128-9	54-7	200	124-0	78-2	260	110-0	101-6
21	19-3	08-2	81	74-6	31-6	141	129-8	55-1	201	125-0	78-6	261	110-9	102-0
22	20-3	08-6	82	75-5	32-0	142	130-7	55-5	202	126-0	78-9	262	111-8	102-4
23	21-2	09-0	83	76-4	32-4	143	131-6	55-9	203	127-0	79-3	263	112-7	102-8
24	22-1	09-4	84	77-3	32-8	144	132-5	56-3	204	128-0	79-7	264	113-6	103-2
25	23-0	09-8	85	78-2	33-2	145	133-5	56-7	205	129-0	80-1	265	114-5	103-5
26	23-9	10-2	86	79-2	33-6	146	134-4	57-0	206	130-0	80-5	266	115-4	103-9
27	24-9	10-5	87	80-1	34-0	147	135-3	57-4	207	131-0	80-9	267	116-3	104-3
28	25-8	10-9	88	81-0	34-4	148	136-2	57-8	208	132-0	81-3	268	117-2	104-7
29	26-7	11-3	89	81-9	34-8	149	137-2	58-2	209	133-0	81-7	269	118-1	105-1
30	27-6	11-7	90	82-8	35-2	150	138-1	58-6	210	134-0	82-1	270	119-0	105-5
31	28-5	12-1	91	83-8	35-6	151	139-0	59-0	211	135-0	82-5	271	120-0	105-9
32	29-4	12-5	92	84-7	35-9	152	139-9	59-4	212	136-0	82-9	272	121-0	106-3
33	30-4	12-9	93	85-6	36-3	153	140-8	59-8	213	137-0	83-3	273	122-0	106-7
34	31-3	13-3	94	86-5	36-7	154	141-8	60-2	214	138-0	83-7	274	123-0	107-1
35	32-2	13-7	95	87-4	37-1	155	142-7	60-6	215	139-0	84-1	275	124-0	107-5
36	33-1	14-1	96	88-4	37-5	156	143-6	61-0	216	140-0	84-5	276	125-0	107-9
37	34-1	14-5	97	89-3	37-9	157	144-5	61-3	217	141-0	84-9	277	126-0	108-2
38	35-0	14-8	98	90-2	38-3	158	145-4	61-7	218	142-0	85-3	278	127-0	108-6
39	35-9	15-2	99	91-1	38-7	159	146-4	62-1	219	143-0	85-7	279	128-0	109-0
40	36-8	15-6	100	92-1	39-1	160	147-3	62-5	220	144-0	86-0	280	129-0	109-4
41	37-7	16-0	101	93-0	39-5	161	148-2	62-9	221	145-0	86-4	281	130-0	109-8
42	38-7	16-4	102	93-9	39-9	162	149-1	63-3	222	146-0	86-7	282	131-0	110-2
43	39-6	16-8	103	94-8	40-2	163	150-0	63-7	223	147-0	87-1	283	132-0	110-6
44	40-5	17-2	104	95-7	40-6	164	151-0	64-1	224	148-0	87-5	284	133-0	111-0
45	41-4	17-6	105	96-7	41-0	165	151-9	64-5	225	149-0	87-9	285	134-0	111-4
46	42-3	18-0	106	97-6	41-4	166	152-8	64-9	226	150-0	88-3	286	135-0	111-7
47	43-3	18-4	107	98-5	41-8	167	153-7	65-3	227	151-0	88-7	287	136-0	112-1
48	44-2	18-8	108	99-4	42-2	168	154-6	65-7	228	152-0	89-1	288	137-0	112-5
49	45-1	19-1	109	100-3	42-6	169	155-5	66-0	229	153-0	89-5	289	138-0	112-9
50	46-0	19-5	110	101-3	43-0	170	156-5	66-4	230	154-0	89-9	290	139-0	113-3
51	46-9	19-9	111	102-2	43-4	171	157-4	66-8	231	155-0	90-3	291	140-0	113-7
52	47-9	20-3	112	103-1	43-8	172	158-3	67-2	232	156-0	90-7	292	141-0	114-1
53	48-8	20-7	113	104-0	44-2	173	159-2	67-6	233	157-0	91-1	293	142-0	114-5
54	49-7	21-1	114	104-9	44-6	174	160-2	68-0	234	158-0	91-5	294	143-0	114-9
55	50-6	21-5	115	105-9	44-9	175	161-1	68-4	235	159-0	91-9	295	144-0	115-3
56	51-5	21-9	116	106-8	45-3	176	162-0	68-8	236	160-0	92-3	296	145-0	115-7
57	52-5	22-3	117	107-7	45-7	177	162-9	69-2	237	161-0	92-7	297	146-0	116-0
58	53-4	22-7	118	108-6	46-1	178	163-8	69-6	238	162-0	93-1	298	147-0	116-4
59	54-3	23-1	119	109-5	46-5	179	164-8	69-9	239	163-0	93-5	299	148-0	116-8
60	55-2	23-4	120	110-5	46-9	180	165-7	70-3	240	164-0	93-9	300	149-0	117-2

67.

DIFFERENCE OF LATITUDE AND DEPARTURE.

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PLATE 24.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-4	61	55-7	24-8	121	110-5	49-2	181	163-4	73-6	241	230-2	98-0
2	01-8	00-8	62	56-6	25-2	122	111-5	49-6	182	166-3	74-0	242	231-1	98-4
3	02-7	01-2	63	57-6	25-6	123	112-4	50-0	183	167-2	74-4	243	232-0	98-8
4	03-7	01-6	64	58-5	26-0	124	113-3	50-4	184	168-1	74-8	244	232-9	99-2
5	04-6	02-0	65	59-4	26-4	125	114-2	50-8	185	169-0	75-2	245	233-8	99-7
6	05-5	02-4	66	60-3	26-8	126	115-1	51-2	186	169-9	75-7	246	234-7	100-1
7	06-4	02-8	67	61-2	27-3	127	116-0	51-7	187	170-8	76-1	247	235-6	100-5
8	07-3	03-3	68	62-1	27-7	128	116-9	52-1	188	171-7	76-5	248	236-5	100-9
9	08-2	03-7	69	63-0	28-1	129	117-8	52-5	189	172-7	76-9	249	237-5	101-3
10	09-1	04-1	70	63-9	28-5	130	118-8	52-9	190	173-6	77-3	250	238-4	101-7
11	10-0	04-5	71	64-9	28-9	131	119-7	53-3	191	174-5	77-7	251	239-3	102-1
12	11-0	04-9	72	65-8	29-3	132	120-6	53-7	192	175-4	78-1	252	240-2	102-5
13	11-9	05-3	73	66-7	29-7	133	121-5	54-1	193	176-3	78-5	253	241-1	102-9
14	12-8	05-7	74	67-6	30-1	134	122-4	54-5	194	177-2	78-9	254	242-0	103-3
15	13-7	06-1	75	68-5	30-5	135	123-3	54-9	195	178-1	79-3	255	243-0	103-7
16	14-6	06-5	76	69-4	30-9	136	124-2	55-3	196	179-0	79-7	256	243-9	104-1
17	15-5	06-9	77	70-3	31-3	137	125-2	55-7	197	180-0	80-1	257	244-8	104-5
18	16-4	07-3	78	71-3	31-7	138	126-1	56-1	198	180-9	80-5	258	245-7	104-9
19	17-4	07-7	79	72-2	32-1	139	127-0	56-5	199	181-8	80-9	259	246-6	105-3
20	18-3	08-1	80	73-1	32-5	140	127-9	56-9	200	182-7	81-3	260	247-5	105-7
21	19-2	08-5	81	74-0	32-9	141	128-8	57-3	201	183-6	81-7	261	248-4	106-1
22	20-1	08-9	82	74-9	33-3	142	129-7	57-7	202	184-5	82-1	262	249-3	106-5
23	21-0	09-3	83	75-8	33-7	143	130-6	58-1	203	185-4	82-5	263	250-2	106-9
24	21-9	09-7	84	76-7	34-1	144	131-5	58-5	204	186-3	82-9	264	251-1	107-3
25	22-8	10-2	85	77-6	34-5	145	132-4	58-9	205	187-2	83-3	265	252-0	107-7
26	23-7	10-6	86	78-5	34-9	146	133-3	59-3	206	188-1	83-7	266	252-9	108-1
27	24-6	11-0	87	79-4	35-3	147	134-2	59-7	207	189-0	84-1	267	253-8	108-5
28	25-5	11-4	88	80-3	35-7	148	135-1	60-1	208	190-0	84-5	268	254-7	108-9
29	26-4	11-8	89	81-2	36-1	149	136-0	60-5	209	190-9	84-9	269	255-6	109-3
30	27-3	12-2	90	82-1	36-5	150	137-0	60-9	210	191-8	85-3	270	256-5	109-7
31	28-2	12-6	91	83-0	36-9	151	137-9	61-3	211	192-7	85-7	271	257-4	110-1
32	29-1	13-0	92	84-0	37-3	152	138-8	61-7	212	193-6	86-1	272	258-3	110-5
33	30-1	13-4	93	85-0	37-7	153	139-7	62-1	213	194-5	86-5	273	259-2	110-9
34	31-1	13-8	94	85-9	38-1	154	140-7	62-5	214	195-4	86-9	274	260-1	111-3
35	32-0	14-2	95	86-8	38-5	155	141-6	62-9	215	196-3	87-3	275	261-0	111-7
36	32-9	14-6	96	87-7	38-9	156	142-5	63-3	216	197-2	87-7	276	261-9	112-1
37	33-8	15-0	97	88-6	39-3	157	143-4	63-7	217	198-1	88-1	277	262-8	112-5
38	34-7	15-4	98	89-5	39-7	158	144-3	64-1	218	199-0	88-5	278	263-7	112-9
39	35-6	15-8	99	90-4	40-1	159	145-2	64-5	219	200-0	88-9	279	264-6	113-3
40	36-5	16-2	100	91-3	40-5	160	146-1	64-9	220	200-9	89-3	280	265-5	113-7
41	37-4	16-6	101	92-2	40-9	161	147-0	65-3	221	201-8	89-7	281	266-4	114-1
42	38-3	17-0	102	93-1	41-3	162	147-9	65-7	222	202-7	90-1	282	267-3	114-5
43	39-2	17-4	103	94-0	41-7	163	148-8	66-1	223	203-6	90-5	283	268-2	114-9
44	40-1	17-8	104	95-0	42-1	164	149-7	66-5	224	204-5	90-9	284	269-1	115-3
45	41-1	18-2	105	95-9	42-5	165	150-6	66-9	225	205-4	91-3	285	270-0	115-7
46	42-0	18-6	106	96-8	42-9	166	151-5	67-3	226	206-3	91-7	286	270-9	116-1
47	42-9	19-0	107	97-7	43-3	167	152-4	67-7	227	207-2	92-1	287	271-8	116-5
48	43-8	19-4	108	98-6	43-7	168	153-3	68-1	228	208-1	92-5	288	272-7	116-9
49	44-7	19-8	109	99-5	44-1	169	154-2	68-5	229	209-0	92-9	289	273-6	117-3
50	45-6	20-2	110	100-4	44-5	170	155-1	68-9	230	210-0	93-3	290	274-5	117-7
51	46-5	20-6	111	101-3	44-9	171	156-0	69-3	231	210-9	93-7	291	275-4	118-1
52	47-4	21-0	112	102-2	45-3	172	156-9	69-7	232	211-8	94-1	292	276-3	118-5
53	48-3	21-4	113	103-1	45-7	173	157-8	70-1	233	212-7	94-5	293	277-2	118-9
54	49-2	21-8	114	104-0	46-1	174	158-7	70-5	234	213-6	94-9	294	278-1	119-3
55	50-1	22-2	115	104-9	46-5	175	159-6	70-9	235	214-5	95-3	295	279-0	119-7
56	51-0	22-6	116	105-8	46-9	176	160-5	71-3	236	215-4	95-7	296	280-0	120-1
57	51-9	23-0	117	106-7	47-3	177	161-4	71-7	237	216-3	96-1	297	280-9	120-5
58	52-8	23-4	118	107-6	47-7	178	162-3	72-1	238	217-2	96-5	298	281-8	120-9
59	53-7	23-8	119	108-5	48-1	179	163-2	72-5	239	218-1	96-9	299	282-7	121-3
60	54-6	24-2	120	109-4	48-5	180	164-1	72-9	240	219-0	97-3	300	283-6	121-7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 25'.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00 9	00 4	61	55 3	25 8	121	109 7	51 1	181	164 0	76 5	241	218 4	101 0
2	01 8	00 8	62	56 2	26 2	122	110 6	51 6	182	164 9	76 9	242	219 2	102 3
3	02 7	01 3	63	57 1	26 6	123	111 5	52 0	183	165 9	77 3	243	220 2	102 7
4	03 6	01 7	64	58 0	27 0	124	112 4	52 4	184	166 8	77 8	244	221 1	103 1
5	04 5	02 1	65	58 9	27 5	125	113 3	52 8	185	167 7	78 2	245	222 0	103 5
6	05 4	02 5	66	59 8	27 9	126	114 2	53 2	186	168 6	78 6	246	223 0	104 0
7	06 3	03 0	67	60 7	28 3	127	115 1	53 7	187	169 5	79 0	247	223 9	104 4
8	07 3	03 4	68	61 6	28 7	128	116 0	54 1	188	170 4	79 5	248	224 8	104 8
9	08 2	03 8	69	62 5	29 2	129	116 9	54 5	189	171 3	79 9	249	225 7	105 2
10	09 1	04 2	70	63 4	29 6	130	117 8	54 9	190	172 2	80 3	250	226 6	105 7
11	10 0	04 6	71	64 3	30 0	131	118 7	55 4	191	173 1	80 7	251	227 5	106 1
12	10 9	05 1	72	65 3	30 4	132	119 6	55 8	192	174 0	81 1	252	228 4	106 5
13	11 8	05 5	73	66 2	30 9	133	120 5	56 3	193	174 9	81 6	253	229 3	106 9
14	12 7	05 9	74	67 1	31 3	134	121 4	56 7	194	175 8	82 0	254	230 2	107 3
15	13 6	06 3	75	68 0	31 7	135	122 4	57 1	195	176 7	82 4	255	231 1	107 8
16	14 5	06 8	76	68 9	32 1	136	123 3	57 5	196	177 6	82 8	256	232 0	108 2
17	15 4	07 2	77	69 8	32 5	137	124 2	57 9	197	178 5	83 3	257	232 9	108 6
18	16 3	07 6	78	70 7	33 0	138	125 1	58 3	198	179 4	83 7	258	233 8	109 0
19	17 2	08 0	79	71 6	33 4	139	126 0	58 7	199	180 3	84 1	259	234 7	109 5
20	18 1	08 5	80	72 5	33 8	140	126 9	59 2	200	181 2	84 5	260	235 6	109 9
21	19 0	08 9	81	73 4	34 2	141	127 8	59 6	201	182 1	84 9	261	236 5	110 3
22	19 9	09 3	82	74 3	34 7	142	128 7	60 0	202	183 1	85 4	262	237 5	110 7
23	20 8	09 7	83	75 2	35 1	143	129 6	60 4	203	184 0	85 8	263	238 4	111 1
24	21 8	10 1	84	76 1	35 5	144	130 5	60 9	204	184 9	86 2	264	239 3	111 6
25	22 7	10 6	85	77 0	35 9	145	131 4	61 3	205	185 8	86 6	265	240 2	112 0
26	23 6	11 0	86	77 9	36 3	146	132 3	61 7	206	186 7	87 1	266	241 1	112 4
27	24 5	11 4	87	78 8	36 8	147	133 2	62 1	207	187 6	87 5	267	242 0	112 8
28	25 4	11 8	88	79 8	37 2	148	134 1	62 5	208	188 5	87 9	268	242 9	113 3
29	26 3	12 3	89	80 7	37 6	149	135 0	63 0	209	189 4	88 3	269	243 8	113 7
30	27 2	12 7	90	81 6	38 0	150	135 9	63 4	210	190 3	88 7	270	244 7	114 1
31	28 1	13 1	91	82 5	38 5	151	136 8	63 8	211	191 2	89 2	271	245 6	114 5
32	29 0	13 6	92	83 4	38 9	152	137 8	64 2	212	192 1	89 6	272	246 5	115 0
33	29 9	14 0	93	84 3	39 3	153	138 7	64 7	213	193 0	90 0	273	247 4	115 4
34	30 8	14 4	94	85 2	39 7	154	139 6	65 1	214	193 9	90 4	274	248 3	115 8
35	31 7	14 8	95	86 1	40 1	155	140 5	65 5	215	194 8	90 9	275	249 2	116 2
36	32 6	15 2	96	87 0	40 6	156	141 4	65 9	216	195 7	91 3	276	250 1	116 6
37	33 5	15 6	97	87 9	41 0	157	142 3	66 4	217	196 6	91 7	277	251 0	117 1
38	34 4	16 1	98	88 8	41 4	158	143 2	66 8	218	197 5	92 1	278	252 0	117 5
39	35 3	16 5	99	89 7	41 8	159	144 1	67 2	219	198 4	92 6	279	252 9	117 9
40	36 2	16 9	100	90 6	42 3	160	145 0	67 6	220	199 3	93 0	280	253 8	118 3
41	37 2	17 3	101	91 5	42 7	161	145 9	68 0	221	200 2	93 4	281	254 7	118 8
42	38 1	17 7	102	92 4	43 1	162	146 8	68 5	222	201 1	93 8	282	255 6	119 2
43	39 0	18 2	103	93 3	43 5	163	147 7	68 9	223	202 1	94 2	283	256 5	119 6
44	39 9	18 6	104	94 3	44 0	164	148 6	69 3	224	203 0	94 7	284	257 4	120 0
45	40 8	19 0	105	95 2	44 4	165	149 5	69 7	225	203 9	95 1	285	258 3	120 4
46	41 7	19 4	106	96 1	44 8	166	150 4	70 2	226	204 8	95 5	286	259 2	120 9
47	42 6	19 9	107	97 0	45 2	167	151 3	70 6	227	205 7	95 9	287	260 1	121 3
48	43 5	20 3	108	97 9	45 6	168	152 3	71 0	228	206 6	96 4	288	261 0	121 7
49	44 4	20 7	109	98 8	46 1	169	153 2	71 4	229	207 5	96 8	289	261 9	122 1
50	45 3	21 1	110	99 7	46 5	170	154 1	71 8	230	208 4	97 2	290	262 8	122 6
51	46 2	21 6	111	100 6	46 9	171	155 0	72 3	231	209 3	97 6	291	263 7	123 0
52	47 1	22 0	112	101 5	47 3	172	155 9	72 7	232	210 3	98 0	292	264 6	123 4
53	48 0	22 4	113	102 4	47 8	173	156 8	73 1	233	211 2	98 5	293	265 5	123 8
54	48 9	22 8	114	103 3	48 2	174	157 7	73 5	234	212 1	98 9	294	266 4	124 2
55	49 8	23 2	115	104 2	48 6	175	158 6	74 0	235	213 0	99 3	295	267 3	124 7
56	50 8	23 7	116	105 1	49 0	176	159 5	74 4	236	213 9	99 7	296	268 2	125 1
57	51 7	24 1	117	106 0	49 4	177	160 4	74 8	237	214 8	100 2	297	269 1	125 5
58	52 6	24 5	118	106 9	49 9	178	161 3	75 3	238	215 7	100 6	298	270 1	125 9
59	53 5	24 9	119	107 8	50 3	179	162 2	75 6	239	216 6	101 0	299	271 0	126 4
60	54 4	25 4	120	108 8	50 7	180	163 1	76 1	240	217 5	101 4	300	271 9	126 8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 26°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.0	00.0	61	51.8	26.7	121	108.8	53.0	181	162.7	79.3	241	218.0	105.6
2	01.6	00.0	62	53.7	27.2	122	109.7	53.5	182	163.6	79.8	242	217.5	106.1
3	02.7	01.3	63	55.6	27.6	123	110.6	53.9	183	164.5	80.2	243	218.4	106.5
4	03.6	01.8	64	57.5	28.1	124	111.5	54.4	184	165.4	80.7	244	219.3	107.0
5	04.5	02.2	65	58.1	28.5	125	112.3	54.8	185	166.3	81.1	245	220.2	107.4
6	05.4	02.6	66	59.3	28.9	126	113.2	55.2	186	167.2	81.5	246	221.1	107.8
7	06.3	03.1	67	60.2	29.4	127	114.1	55.7	187	168.1	82.0	247	222.0	108.3
8	07.2	03.5	68	61.1	29.8	128	115.0	56.1	188	169.0	82.4	248	222.9	108.7
9	08.1	03.9	69	62.0	30.2	129	115.9	56.5	189	169.9	82.9	249	223.8	109.2
10	09.0	04.4	70	62.9	30.7	130	116.8	57.0	190	170.8	83.3	250	224.7	109.6
11	09.9	04.8	71	63.8	31.1	131	117.7	57.4	191	171.7	83.7	251	225.6	110.0
12	10.8	05.3	72	64.7	31.6	132	118.6	57.9	192	172.6	84.2	252	226.5	110.6
13	11.7	05.7	73	65.6	32.0	133	119.5	58.3	193	173.5	84.6	253	227.4	110.9
14	12.6	06.1	74	66.5	32.4	134	120.4	58.7	194	174.4	85.0	254	228.3	111.3
15	13.5	06.6	75	67.4	32.9	135	121.3	59.2	195	175.3	85.5	255	229.2	111.8
16	14.4	07.0	76	68.3	33.3	136	122.2	59.6	196	176.2	85.9	256	230.1	112.2
17	15.3	07.5	77	69.2	33.8	137	123.1	60.1	197	177.1	86.4	257	231.0	112.7
18	16.2	07.9	78	70.1	34.2	138	124.0	60.5	198	178.0	86.8	258	231.9	113.1
19	17.1	08.3	79	71.0	34.6	139	124.9	60.9	199	178.9	87.2	259	232.8	113.5
20	18.0	08.8	80	71.9	35.1	140	125.8	61.4	200	179.8	87.7	260	233.7	114.0
21	18.9	09.2	81	72.8	35.5	141	126.7	61.8	201	180.7	88.1	261	234.6	114.4
22	19.8	09.6	82	73.7	35.9	142	127.6	62.2	202	181.6	88.6	262	235.5	114.9
23	20.7	10.1	83	74.6	36.4	143	128.5	62.7	203	182.5	89.0	263	236.4	115.3
24	21.6	10.5	84	75.5	36.8	144	129.4	63.1	204	183.4	89.4	264	237.3	115.7
25	22.5	11.0	85	76.4	37.3	145	130.3	63.6	205	184.3	89.9	265	238.2	116.2
26	23.4	11.4	86	77.3	37.7	146	131.2	64.0	206	185.2	90.3	266	239.1	116.6
27	24.3	11.8	87	78.2	38.1	147	132.1	64.4	207	186.1	90.7	267	240.0	117.0
28	25.2	12.3	88	79.1	38.6	148	133.0	64.9	208	187.0	91.2	268	240.9	117.5
29	26.1	12.7	89	80.0	39.0	149	133.9	65.3	209	187.9	91.6	269	241.8	117.9
30	27.0	13.2	90	80.9	39.5	150	134.8	65.8	210	188.7	92.1	270	242.7	118.4
31	27.9	13.6	91	81.8	39.9	151	135.7	66.2	211	189.6	92.5	271	243.6	118.8
32	28.8	14.0	92	82.7	40.3	152	136.6	66.6	212	190.5	92.9	272	244.5	119.2
33	29.7	14.5	93	83.6	40.8	153	137.5	67.1	213	191.4	93.4	273	245.4	119.7
34	30.6	14.9	94	84.5	41.2	154	138.4	67.5	214	192.3	93.8	274	246.3	120.1
35	31.5	15.3	95	85.4	41.6	155	139.3	67.9	215	193.2	94.2	275	247.2	120.6
36	32.4	15.8	96	86.3	42.1	156	140.2	68.4	216	194.1	94.7	276	248.1	121.0
37	33.3	16.2	97	87.2	42.5	157	141.1	68.8	217	195.0	95.1	277	249.0	121.4
38	34.2	16.7	98	88.1	43.0	158	142.0	69.3	218	195.9	95.6	278	249.9	121.9
39	35.1	17.1	99	89.0	43.4	159	142.9	69.7	219	196.8	96.0	279	250.8	122.3
40	36.0	17.5	100	89.9	43.8	160	143.8	70.1	220	197.7	96.4	280	251.7	122.7
41	36.9	18.0	101	90.8	44.3	161	144.7	70.6	221	198.6	96.9	281	252.6	123.2
42	37.7	18.4	102	91.7	44.7	162	145.6	71.0	222	199.5	97.3	282	253.5	123.6
43	38.6	18.8	103	92.6	45.2	163	146.5	71.5	223	200.4	97.8	283	254.4	124.1
44	39.5	19.3	104	93.5	45.6	164	147.4	71.9	224	201.3	98.2	284	255.3	124.5
45	40.4	19.7	105	94.4	46.0	165	148.3	72.3	225	202.2	98.6	285	256.2	124.9
46	41.3	20.2	106	95.3	46.5	166	149.2	72.8	226	203.1	99.1	286	257.1	125.4
47	42.2	20.6	107	96.2	46.9	167	150.1	73.2	227	204.0	99.5	287	258.0	125.8
48	43.1	21.0	108	97.1	47.3	168	151.0	73.6	228	204.9	99.9	288	258.9	126.3
49	44.0	21.5	109	98.0	47.8	169	151.9	74.1	229	205.8	100.4	289	259.8	126.7
50	44.9	21.9	110	98.9	48.2	170	152.8	74.5	230	206.7	100.8	290	260.7	127.1
51	45.8	22.4	111	99.8	48.7	171	153.7	75.0	231	207.6	101.3	291	261.6	127.6
52	46.7	22.8	112	100.7	49.1	172	154.6	75.4	232	208.5	101.7	292	262.5	128.0
53	47.6	23.2	113	101.6	49.5	173	155.5	75.8	233	209.4	102.1	293	263.4	128.4
54	48.5	23.7	114	102.5	50.0	174	156.4	76.3	234	210.3	102.6	294	264.3	128.9
55	49.4	24.1	115	103.4	50.4	175	157.3	76.7	235	211.2	103.0	295	265.2	129.3
56	50.3	24.5	116	104.3	50.9	176	158.2	77.2	236	212.1	103.5	296	266.1	129.8
57	51.2	25.0	117	105.2	51.3	177	159.1	77.6	237	213.0	103.9	297	267.0	130.2
58	52.1	25.4	118	106.1	51.7	178	160.0	78.0	238	213.9	104.3	298	267.9	130.6
59	53.0	25.9	119	107.0	52.2	179	160.9	78.5	239	214.8	104.8	299	268.7	131.1
60	53.9	26.3	120	107.9	52.6	180	161.8	78.9	240	215.7	105.2	300	269.6	131.5
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-0	00-5	61	54-4	27-7	121	107-8	04-9	181	161-3	82-2	241	214-7	109-4
2	01-8	00-9	62	55-2	28-1	122	108-7	05-4	182	162-2	82-6	242	215-6	109-9
3	02-7	01-4	63	56-1	28-6	123	109-6	05-8	183	163-1	83-1	243	216-5	110-3
4	03-6	01-8	64	57-0	29-1	124	110-5	06-3	184	163-9	83-5	244	217-4	110-8
5	04-5	02-3	65	57-9	29-5	125	111-4	06-7	185	164-8	84-0	245	218-3	111-2
6	05-3	02-7	66	58-8	30-0	126	112-3	07-2	186	165-7	84-4	246	219-2	111-7
7	06-2	03-2	67	59-7	30-4	127	113-2	07-7	187	166-6	84-9	247	220-1	112-1
8	07-1	03-6	68	60-6	30-9	128	114-0	08-1	188	167-5	85-4	248	221-0	112-6
9	08-0	04-1	69	61-5	31-3	129	114-9	08-6	189	168-4	85-8	249	221-9	113-0
10	08-9	04-5	70	62-4	31-8	130	115-8	09-0	190	169-3	86-3	250	222-8	113-5
11	09-8	05-0	71	63-3	32-2	131	116-7	09-5	191	170-2	86-7	251	223-6	114-0
12	10-7	05-4	72	64-2	32-7	132	117-6	09-9	192	171-1	87-2	252	224-5	114-4
13	11-6	05-9	73	65-0	33-1	133	118-5	09-4	193	172-0	87-6	253	225-4	114-9
14	12-5	06-4	74	65-9	33-6	134	119-4	09-8	194	172-9	88-1	254	226-3	115-3
15	13-4	06-8	75	66-8	34-0	135	120-3	01-3	195	173-7	88-5	255	227-2	115-8
16	14-3	07-3	76	67-7	34-5	136	121-2	01-7	196	174-6	89-0	256	228-1	116-2
17	15-1	07-7	77	68-6	35-0	137	122-1	02-2	197	175-5	89-4	257	229-0	116-7
18	16-0	08-2	78	69-5	35-4	138	123-0	02-6	198	176-4	89-9	258	229-9	117-1
19	16-9	08-6	79	70-4	35-9	139	123-8	03-1	199	177-3	90-3	259	230-8	117-6
20	17-8	09-1	80	71-3	36-3	140	124-7	03-6	200	178-2	90-8	260	231-7	118-0
21	18-7	09-5	81	72-2	36-8	141	125-6	04-0	201	179-1	91-3	261	232-6	118-5
22	19-6	10-0	82	73-1	37-2	142	126-5	04-5	202	180-0	91-7	262	233-5	118-9
23	20-5	10-4	83	74-0	37-7	143	127-4	04-9	203	180-9	92-2	263	234-4	119-4
24	21-4	10-9	84	74-8	38-1	144	128-3	05-4	204	181-8	92-6	264	235-3	119-9
25	22-3	11-3	85	75-7	38-6	145	129-2	05-8	205	182-7	93-1	265	236-1	120-3
26	23-2	11-8	86	76-6	39-0	146	130-1	06-3	206	183-6	93-5	266	237-0	120-8
27	24-1	12-3	87	77-5	39-5	147	131-0	06-7	207	184-4	94-0	267	237-9	121-2
28	24-9	12-7	88	78-4	40-0	148	131-9	07-2	208	185-3	94-4	268	238-8	121-7
29	25-8	13-2	89	79-3	40-4	149	132-8	07-6	209	186-2	94-9	269	239-7	122-1
30	26-7	13-6	90	80-2	40-9	150	133-7	08-1	210	187-1	95-3	270	240-6	122-6
31	27-6	14-1	91	81-1	41-3	151	134-5	08-6	211	188-0	95-8	271	241-5	123-0
32	28-5	14-5	92	82-0	41-8	152	135-4	09-0	212	188-9	96-2	272	242-4	123-5
33	29-4	15-0	93	82-9	42-2	153	136-3	09-5	213	189-8	96-7	273	243-3	123-9
34	30-3	15-4	94	83-8	42-7	154	137-2	09-9	214	190-7	97-2	274	244-1	124-4
35	31-2	15-9	95	84-6	43-1	155	138-1	70-4	215	191-6	97-6	275	245-0	124-8
36	32-1	16-3	96	85-5	43-6	156	139-0	70-8	216	192-5	98-1	276	245-9	125-3
37	33-0	16-8	97	86-4	44-0	157	139-9	71-3	217	193-4	98-5	277	246-8	125-8
38	33-9	17-3	98	87-3	44-5	158	140-8	71-7	218	194-2	99-0	278	247-7	126-2
39	34-7	17-7	99	88-2	44-9	159	141-7	72-2	219	195-1	99-4	279	248-6	126-7
40	35-6	18-2	100	89-1	45-4	160	142-6	72-6	220	196-0	99-9	280	249-5	127-1
41	36-5	18-6	101	90-0	45-9	161	143-5	73-1	221	196-9	100-3	281	250-4	127-6
42	37-4	19-1	102	90-9	46-3	162	144-4	73-5	222	197-8	100-8	282	251-3	128-0
43	38-3	19-5	103	91-8	46-8	163	145-2	74-0	223	198-7	101-2	283	252-2	128-5
44	39-2	20-0	104	92-7	47-2	164	146-1	74-5	224	199-6	101-7	284	253-0	128-9
45	40-1	20-4	105	93-6	47-7	165	147-0	74-9	225	200-5	102-1	285	253-9	129-4
46	41-0	20-9	106	94-4	48-1	166	147-9	75-4	226	201-4	102-6	286	254-8	129-8
47	41-9	21-3	107	95-3	48-6	167	148-8	75-8	227	202-3	103-1	287	255-7	130-3
48	42-8	21-8	108	96-2	49-0	168	149-7	76-3	228	203-1	103-5	288	256-6	130-7
49	43-7	22-2	109	97-1	49-5	169	150-6	76-7	229	204-0	104-0	289	257-5	131-2
50	44-6	22-7	110	98-0	49-9	170	151-5	77-2	230	204-9	104-4	290	258-4	131-7
51	45-4	23-2	111	98-9	50-4	171	152-4	77-6	231	205-8	104-9	291	259-3	132-1
52	46-3	23-6	112	99-8	50-8	172	153-3	78-1	232	206-7	105-3	292	260-2	132-6
53	47-2	24-1	113	100-7	51-3	173	154-1	78-5	233	207-6	105-8	293	261-1	133-0
54	48-1	24-5	114	101-6	51-8	174	155-0	79-0	234	208-5	106-2	294	262-0	133-5
55	49-0	25-0	115	102-5	52-2	175	155-9	79-4	235	209-4	106-7	295	262-8	133-9
56	49-9	25-4	116	103-4	52-7	176	156-8	79-9	236	210-3	107-1	296	263-7	134-4
57	50-8	25-9	117	104-3	53-1	177	157-7	80-4	237	211-2	107-6	297	264-6	134-8
58	51-7	26-3	118	105-1	53-6	178	158-6	80-8	238	212-1	108-0	298	265-5	135-3
59	52-6	26-8	119	106-0	54-0	179	159-5	81-3	239	213-0	108-5	299	266-4	135-7
60	53-5	27-2	120	106-9	54-5	180	160-4	81-7	240	213-9	109-0	300	267-3	136-2
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 38°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-0	00-0	61	58-9	28-6	121	106-8	50-8	181	159-8	85-0	241	212-8	113-1
2	01-8	00-9	62	54-7	29-1	122	107-7	51-3	182	160-7	85-4	242	213-7	113-6
3	02-6	01-4	63	55-6	29-6	123	108-6	51-7	183	161-6	85-9	243	214-6	114-1
4	03-5	01-9	64	56-5	30-0	124	109-5	52-2	184	162-5	86-4	244	215-4	114-6
5	04-4	02-3	65	57-4	30-5	125	110-4	52-7	185	163-4	86-9	245	216-3	115-0
6	05-3	02-8	66	58-3	31-0	126	111-3	53-2	186	164-3	87-3	246	217-2	115-5
7	06-2	03-2	67	59-2	31-5	127	112-1	53-6	187	165-1	87-8	247	218-1	116-0
8	07-1	03-8	68	60-0	31-9	128	113-0	54-1	188	166-0	88-3	248	219-0	116-4
9	07-0	04-2	69	60-9	32-4	129	113-9	54-6	189	166-9	88-7	249	219-9	116-9
10	08-8	04-7	70	61-8	32-9	130	114-8	55-0	190	167-8	89-2	250	220-7	117-4
11	09-7	05-2	71	62-7	33-3	131	115-7	55-5	191	168-6	89-7	251	221-6	117-8
12	10-6	05-6	72	63-6	33-8	132	116-5	56-0	192	169-5	90-1	252	222-5	118-3
13	11-5	06-1	73	64-5	34-3	133	117-4	56-4	193	170-4	90-6	253	223-4	118-8
14	12-4	06-6	74	65-3	34-7	134	118-3	56-9	194	171-3	91-1	254	224-3	119-2
15	13-2	07-0	75	66-2	35-2	135	119-2	57-4	195	172-2	91-5	255	225-2	119-7
16	14-1	07-5	76	67-1	35-7	136	120-1	57-8	196	173-1	92-0	256	226-0	120-2
17	15-0	08-0	77	68-0	36-1	137	121-0	58-3	197	174-0	92-5	257	226-9	120-7
18	15-9	08-5	78	68-9	36-6	138	121-8	58-8	198	174-8	93-0	258	227-8	121-1
19	16-8	08-9	79	69-8	37-1	139	122-7	59-3	199	175-7	93-4	259	228-7	121-6
20	17-7	09-4	80	70-6	37-6	140	123-6	59-7	200	176-6	93-9	260	229-6	122-1
21	18-5	09-9	81	71-5	38-0	141	124-5	60-2	201	177-5	94-4	261	230-4	122-5
22	19-4	10-3	82	72-4	38-5	142	125-4	60-7	202	178-4	94-8	262	231-3	123-0
23	20-3	10-8	83	73-3	39-0	143	126-3	61-1	203	179-3	95-3	263	232-2	123-5
24	21-2	11-3	84	74-2	39-4	144	127-1	61-6	204	180-1	95-8	264	233-1	123-9
25	22-1	11-7	85	75-1	39-9	145	128-0	62-1	205	181-0	96-2	265	234-0	124-4
26	23-0	12-2	86	75-9	40-4	146	128-9	62-6	206	181-9	96-7	266	234-9	124-9
27	23-8	12-7	87	76-8	40-8	147	129-8	63-0	207	182-8	97-2	267	235-7	125-3
28	24-7	13-1	88	77-7	41-3	148	130-7	63-5	208	183-7	97-7	268	236-6	125-8
29	25-6	13-6	89	78-6	41-8	149	131-6	70-0	209	184-5	98-1	269	237-5	126-3
30	26-5	14-1	90	79-5	42-3	150	132-4	70-4	210	185-4	98-6	270	238-4	126-8
31	27-4	14-6	91	80-3	42-7	151	133-3	70-9	211	186-3	99-1	271	239-3	127-2
32	28-3	15-0	92	81-2	43-2	152	134-2	71-4	212	187-2	99-5	272	240-2	127-7
33	29-1	15-5	93	82-1	43-7	153	135-1	71-8	213	188-1	100-0	273	241-1	128-2
34	30-0	16-0	94	83-0	44-1	154	136-0	72-3	214	189-0	100-5	274	242-0	128-6
35	30-9	16-4	95	83-9	44-6	155	136-9	72-8	215	189-9	100-9	275	243-0	129-1
36	31-8	16-9	96	84-8	45-1	156	137-7	73-2	216	190-7	101-4	276	243-9	129-6
37	32-7	17-4	97	85-6	45-5	157	138-6	73-7	217	191-6	101-9	277	244-8	130-0
38	33-6	17-8	98	86-5	46-0	158	139-5	74-2	218	192-5	102-3	278	245-7	130-5
39	34-4	18-3	99	87-4	46-5	159	140-4	74-6	219	193-4	102-8	279	246-6	131-0
40	35-3	18-8	100	88-3	46-9	160	141-3	75-1	220	194-3	103-3	280	247-5	131-5
41	36-2	19-2	101	89-2	47-4	161	142-2	75-6	221	195-1	103-8	281	248-4	131-9
42	37-1	19-7	102	90-1	47-9	162	143-0	76-1	222	196-0	104-2	282	249-3	132-4
43	38-0	20-2	103	90-9	48-4	163	143-9	76-5	223	196-9	104-7	283	250-2	132-9
44	38-8	20-7	104	91-8	48-8	164	144-8	77-0	224	197-8	105-2	284	251-1	133-3
45	39-7	21-1	105	92-7	49-3	165	145-7	77-5	225	198-7	105-6	285	252-0	133-8
46	40-6	21-6	106	93-6	49-8	166	146-6	77-9	226	199-5	106-1	286	252-9	134-3
47	41-5	22-1	107	94-5	50-2	167	147-5	78-4	227	200-4	106-6	287	253-8	134-7
48	42-4	22-5	108	95-4	50-7	168	148-3	78-9	228	201-3	107-0	288	254-7	135-2
49	43-3	23-0	109	96-2	51-2	169	149-2	79-3	229	202-2	107-5	289	255-6	135-7
50	44-1	23-5	110	97-1	51-6	170	150-1	79-8	230	203-1	108-0	290	256-5	136-1
51	45-0	23-9	111	98-0	52-1	171	151-0	80-2	231	204-0	108-4	291	257-4	136-6
52	45-9	24-4	112	98-9	52-6	172	151-9	80-7	232	204-9	108-9	292	258-3	137-1
53	46-8	24-9	113	99-8	53-1	173	152-7	81-2	233	205-7	109-4	293	259-2	137-6
54	47-7	25-4	114	100-7	53-5	174	153-6	81-7	234	206-6	109-9	294	260-1	138-0
55	48-6	25-8	115	101-5	54-0	175	154-5	82-2	235	207-5	110-3	295	261-0	138-5
56	49-4	26-3	116	102-4	54-5	176	155-4	82-6	236	208-4	110-8	296	262-0	139-0
57	50-3	26-8	117	103-3	54-9	177	156-3	83-1	237	209-3	111-3	297	263-1	139-4
58	51-2	27-2	118	104-2	55-4	178	157-2	83-6	238	210-1	111-7	298	264-1	139-9
59	52-1	27-7	119	105-1	55-9	179	158-0	84-0	239	211-0	112-2	299	265-1	140-4
60	53-0	28-2	120	106-0	56-3	180	158-9	84-5	240	211-9	112-7	300	266-0	140-8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.9	00.5	61	53.4	29.6	121	105.8	58.7	181	158.3	87.8	241	210.8	116.8
2	01.7	01.0	62	54.2	30.1	122	106.7	59.1	182	159.2	88.2	242	211.7	117.3
3	02.6	01.5	63	55.1	30.5	123	107.6	59.6	183	160.1	88.7	243	212.5	117.8
4	03.5	01.9	64	56.0	31.0	124	108.5	60.1	184	160.9	89.2	244	213.4	118.3
5	04.4	02.4	65	56.9	31.5	125	109.3	60.6	185	161.8	89.7	245	214.3	118.8
6	05.2	02.9	66	57.7	32.0	126	110.2	61.1	186	162.7	90.2	246	215.2	119.3
7	06.1	03.4	67	58.6	32.5	127	111.1	61.6	187	163.6	90.7	247	216.0	119.7
8	07.0	03.9	68	59.5	33.0	128	112.0	62.1	188	164.4	91.1	248	216.9	120.2
9	07.9	04.4	69	60.3	33.5	129	112.8	62.5	189	165.3	91.6	249	217.8	120.7
10	08.7	04.8	70	61.2	33.9	130	113.7	63.0	190	166.2	92.1	250	218.7	121.2
11	09.6	05.3	71	62.1	34.4	131	114.6	63.5	191	167.1	92.6	251	219.5	121.7
12	10.5	05.8	72	63.0	34.9	132	115.4	64.0	192	167.9	93.1	252	220.4	122.2
13	11.4	06.3	73	63.8	35.4	133	116.3	64.5	193	168.8	93.6	253	221.3	122.7
14	12.2	06.8	74	64.7	35.9	134	117.2	65.0	194	169.7	94.1	254	222.2	123.2
15	13.1	07.3	75	65.6	36.4	135	118.1	65.4	195	170.6	94.5	255	223.0	123.6
16	14.0	07.8	76	66.5	36.8	136	118.9	65.9	196	171.4	95.0	256	223.9	124.1
17	14.9	08.2	77	67.3	37.3	137	119.8	66.4	197	172.3	95.5	257	224.8	124.6
18	15.7	08.7	78	68.2	37.8	138	120.7	66.9	198	173.2	96.0	258	225.7	125.1
19	16.6	09.2	79	69.1	38.3	139	121.6	67.4	199	174.0	96.5	259	226.6	125.6
20	17.5	09.7	80	70.0	38.8	140	122.4	67.9	200	174.9	97.0	260	227.4	126.1
21	18.4	10.2	81	70.8	39.3	141	123.3	68.4	201	175.8	97.4	261	228.3	126.6
22	19.2	10.7	82	71.7	39.8	142	124.2	68.9	202	176.7	97.9	262	229.2	127.0
23	20.1	11.2	83	72.6	40.2	143	125.1	69.3	203	177.5	98.4	263	230.0	127.5
24	21.0	11.6	84	73.5	40.7	144	125.9	69.8	204	178.4	98.9	264	230.9	128.0
25	21.9	12.1	85	74.3	41.2	145	126.8	70.3	205	179.3	99.4	265	231.8	128.5
26	22.7	12.6	86	75.2	41.7	146	127.7	70.8	206	180.2	99.9	266	232.6	129.0
27	23.6	13.1	87	76.1	42.2	147	128.6	71.3	207	181.0	100.4	267	233.5	129.4
28	24.5	13.6	88	77.0	42.7	148	129.4	71.8	208	181.9	100.8	268	234.4	129.9
29	25.4	14.1	89	77.8	43.1	149	130.3	72.2	209	182.8	101.3	269	235.3	130.4
30	26.3	14.6	90	78.7	43.6	150	131.2	72.7	210	183.7	101.8	270	236.1	130.9
31	27.1	15.0	91	79.6	44.1	151	132.1	73.2	211	184.5	102.3	271	237.0	131.4
32	28.0	15.5	92	80.5	44.6	152	132.9	73.7	212	185.4	102.8	272	237.9	131.9
33	28.9	16.0	93	81.3	45.1	153	133.8	74.2	213	186.3	103.3	273	238.8	132.4
34	29.7	16.5	94	82.2	45.6	154	134.7	74.7	214	187.2	103.7	274	239.6	132.8
35	30.6	17.0	95	83.1	46.1	155	135.6	75.1	215	188.0	104.2	275	240.5	133.3
36	31.5	17.5	96	84.0	46.5	156	136.4	75.6	216	188.9	104.7	276	241.4	133.8
37	32.4	17.9	97	84.8	47.0	157	137.3	76.1	217	189.8	105.2	277	242.3	134.3
38	33.2	18.4	98	85.7	47.5	158	138.2	76.6	218	190.7	105.7	278	243.1	134.8
39	34.1	18.9	99	86.6	48.0	159	139.1	77.1	219	191.5	106.2	279	244.0	135.3
40	35.0	19.4	100	87.5	48.5	160	139.9	77.6	220	192.4	106.7	280	244.9	135.7
41	35.9	19.9	101	88.3	49.0	161	140.8	78.1	221	193.3	107.1	281	245.8	136.2
42	36.7	20.4	102	89.2	49.5	162	141.7	78.5	222	194.2	107.6	282	246.6	136.7
43	37.6	20.8	103	90.1	49.9	163	142.6	79.0	223	195.0	108.1	283	247.5	137.2
44	38.5	21.3	104	91.0	50.4	164	143.4	79.5	224	195.9	108.6	284	248.4	137.7
45	39.4	21.8	105	91.8	50.9	165	144.3	80.0	225	196.8	109.1	285	249.3	138.2
46	40.3	22.3	106	92.7	51.4	166	145.2	80.5	226	197.7	109.6	286	250.1	138.7
47	41.1	22.8	107	93.6	51.9	167	146.1	81.0	227	198.5	110.1	287	251.0	139.1
48	42.0	23.3	108	94.5	52.4	168	146.9	81.4	228	199.4	110.5	288	251.9	139.6
49	42.9	23.8	109	95.3	52.8	169	147.8	81.9	229	200.3	111.0	289	252.8	140.1
50	43.7	24.2	110	96.2	53.3	170	148.7	82.4	230	201.2	111.5	290	253.6	140.6
51	44.6	24.7	111	97.1	53.8	171	149.6	82.9	231	202.0	112.0	291	254.5	141.1
52	45.5	25.2	112	98.0	54.3	172	150.4	83.4	232	202.9	112.5	292	255.4	141.6
53	46.4	25.7	113	98.8	54.8	173	151.3	83.9	233	203.8	113.0	293	256.3	142.0
54	47.2	26.2	114	99.7	55.3	174	152.2	84.4	234	204.7	113.4	294	257.1	142.5
55	48.1	26.7	115	100.6	55.8	175	153.1	84.8	235	205.5	113.9	295	258.0	143.0
56	49.0	27.1	116	101.5	56.3	176	153.9	85.3	236	206.4	114.4	296	258.9	143.5
57	49.9	27.6	117	102.3	56.7	177	154.8	85.8	237	207.3	114.9	297	259.8	144.0
58	50.7	28.1	118	103.2	57.2	178	155.7	86.3	238	208.2	115.4	298	260.6	144.5
59	51.6	28.6	119	104.1	57.7	179	156.6	86.8	239	209.0	115.9	299	261.5	145.0
60	52.5	29.1	120	105.0	58.2	180	157.4	87.3	240	209.9	116.4	300	262.4	145.4

For 30°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-5	61	52-8	30-5	121	104-8	60-5	181	156-8	90-5	241	208-7	120-5
2	01-7	01-0	62	53-7	31-0	122	105-7	61-0	182	157-8	91-0	242	209-6	121-0
3	02-6	01-3	63	54-6	31-5	123	106-5	61-5	183	158-5	91-5	243	210-4	121-5
4	03-5	02-0	64	55-4	32-0	124	107-4	62-0	184	159-3	92-0	244	211-3	122-0
5	04-3	02-5	65	56-3	32-5	125	108-3	62-5	185	160-2	92-5	245	212-2	122-5
6	05-2	03-0	66	57-2	33-0	126	109-1	63-0	186	161-1	93-0	246	213-0	123-0
7	06-1	03-5	67	58-0	33-5	127	110-0	63-5	187	161-9	93-5	247	213-9	123-5
8	06-9	04-0	68	58-9	34-0	128	110-9	64-0	188	162-8	94-0	248	214-8	124-0
9	07-8	04-5	69	59-8	34-5	129	111-7	64-5	189	163-7	94-5	249	215-6	124-5
10	08-7	05-0	70	60-6	35-0	130	112-6	65-0	190	164-5	95-0	250	216-5	125-0
11	09-5	05-5	71	61-5	35-5	131	113-4	65-5	191	165-4	95-5	251	217-4	125-5
12	10-4	06-0	72	62-4	36-0	132	114-3	66-0	192	166-3	96-0	252	218-2	126-0
13	11-3	06-5	73	63-2	36-5	133	115-2	66-5	193	167-1	96-5	253	219-1	126-5
14	12-1	07-0	74	64-1	37-0	134	116-0	67-0	194	168-0	97-0	254	220-0	127-0
15	13-0	07-5	75	65-0	37-5	135	116-9	67-5	195	168-9	97-5	255	220-8	127-5
16	13-9	08-0	76	65-8	38-0	136	117-8	68-0	196	169-7	98-0	256	221-7	128-0
17	14-7	08-5	77	66-7	38-5	137	118-6	68-5	197	170-6	98-5	257	222-6	128-5
18	15-6	09-0	78	67-5	39-0	138	119-5	69-0	198	171-5	99-0	258	223-4	129-0
19	16-5	09-5	79	68-4	39-5	139	120-4	69-5	199	172-3	99-5	259	224-3	129-5
20	17-3	10-0	80	69-3	40-0	140	121-2	70-0	200	173-2	100-0	260	225-2	130-0
21	18-2	10-5	81	70-1	40-5	141	122-1	70-5	201	174-1	100-5	261	226-0	130-5
22	19-1	11-0	82	71-0	41-0	142	123-0	71-0	202	174-9	101-0	262	226-9	131-0
23	19-9	11-5	83	71-9	41-5	143	123-8	71-5	203	175-8	101-5	263	227-8	131-5
24	20-8	12-0	84	72-7	42-0	144	124-7	72-0	204	176-7	102-0	264	228-6	132-0
25	21-7	12-5	85	73-6	42-5	145	125-6	72-5	205	177-5	102-5	265	229-5	132-5
26	22-5	13-0	86	74-5	43-0	146	126-4	73-0	206	178-4	103-0	266	230-4	133-0
27	23-4	13-5	87	75-3	43-5	147	127-3	73-5	207	179-3	103-5	267	231-3	133-5
28	24-2	14-0	88	76-2	44-0	148	128-2	74-0	208	180-1	104-0	268	232-1	134-0
29	25-1	14-5	89	77-1	44-5	149	129-0	74-5	209	181-0	104-5	269	233-0	134-5
30	26-0	15-0	90	77-9	45-0	150	129-9	75-0	210	181-9	105-0	270	233-8	135-0
31	26-8	15-5	91	78-8	45-5	151	130-8	75-5	211	182-7	105-5	271	234-7	135-5
32	27-7	16-0	92	79-7	46-0	152	131-6	76-0	212	183-6	106-0	272	235-6	136-0
33	28-6	16-5	93	80-5	46-5	153	132-5	76-5	213	184-5	106-5	273	236-4	136-5
34	29-4	17-0	94	81-4	47-0	154	133-4	77-0	214	185-3	107-0	274	237-3	137-0
35	30-3	17-5	95	82-3	47-5	155	134-2	77-5	215	186-2	107-5	275	238-2	137-5
36	31-2	18-0	96	83-1	48-0	156	135-1	78-0	216	187-1	108-0	276	239-0	138-0
37	32-0	18-5	97	84-0	48-5	157	136-0	78-5	217	187-9	108-5	277	239-9	138-5
38	32-9	19-0	98	84-9	49-0	158	136-8	79-0	218	188-8	109-0	278	240-8	139-0
39	33-8	19-5	99	85-7	49-5	159	137-7	79-5	219	189-7	109-5	279	241-6	139-5
40	34-6	20-0	100	86-6	50-0	160	138-6	80-0	220	190-5	110-0	280	242-5	140-0
41	35-5	20-5	101	87-5	50-5	161	139-4	80-5	221	191-4	110-5	281	243-4	140-5
42	36-4	21-0	102	88-3	51-0	162	140-3	81-0	222	192-3	111-0	282	244-3	141-0
43	37-2	21-5	103	89-2	51-5	163	141-2	81-5	223	193-1	111-5	283	245-1	141-5
44	38-1	22-0	104	90-1	52-0	164	142-0	82-0	224	194-0	112-0	284	246-0	142-0
45	39-0	22-5	105	90-9	52-5	165	142-9	82-5	225	194-9	112-5	285	246-8	142-5
46	39-8	23-0	106	91-8	53-0	166	143-8	83-0	226	195-7	113-0	286	247-7	143-0
47	40-7	23-5	107	92-7	53-5	167	144-6	83-5	227	196-6	113-5	287	248-5	143-5
48	41-6	24-0	108	93-5	54-0	168	145-5	84-0	228	197-5	114-0	288	249-4	144-0
49	42-4	24-5	109	94-4	54-5	169	146-4	84-5	229	198-3	114-5	289	250-3	144-5
50	43-3	25-0	110	95-3	55-0	170	147-2	85-0	230	199-2	115-0	290	251-1	145-0
51	44-2	25-5	111	96-1	55-5	171	148-1	85-5	231	200-1	115-5	291	252-0	145-5
52	45-0	26-0	112	97-0	56-0	172	149-0	86-0	232	200-9	116-0	292	252-9	146-0
53	45-9	26-5	113	97-9	56-5	173	149-8	86-5	233	201-8	116-5	293	253-7	146-5
54	46-8	27-0	114	98-7	57-0	174	150-7	87-0	234	202-6	117-0	294	254-6	147-0
55	47-6	27-5	115	99-6	57-5	175	151-6	87-5	235	203-5	117-5	295	255-5	147-5
56	48-5	28-0	116	100-5	58-0	176	152-4	88-0	236	204-4	118-0	296	256-4	148-0
57	49-4	28-5	117	101-3	58-5	177	153-3	88-5	237	205-2	118-5	297	257-3	148-5
58	50-3	29-0	118	102-2	59-0	178	154-2	89-0	238	206-1	119-0	298	258-1	149-0
59	51-1	29-5	119	103-1	59-5	179	155-0	89-5	239	207-0	119-5	299	258-9	149-5
60	52-0	30-0	120	103-9	60-0	180	155-9	90-0	240	207-8	120-0	300	259-8	150-0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 31'.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-9	00-5	61	52-3	31-4	121	103-7	62-3	181	155-1	93-2	241	206-6	134-1
2	01-7	01-0	62	53-1	31-9	122	104-6	62-8	182	156-0	93-7	242	207-4	134-6
3	02-6	01-5	63	54-0	32-4	123	105-4	63-3	183	156-9	94-3	243	208-3	135-2
4	03-4	02-1	64	54-9	33-0	124	106-3	63-9	184	157-7	94-8	244	209-1	135-7
5	04-3	02-6	65	55-7	33-5	125	107-1	64-4	185	158-6	95-3	245	210-0	136-2
6	05-1	03-1	66	56-6	34-0	126	108-0	64-9	186	159-4	95-8	246	210-9	136-7
7	06-0	03-6	67	57-4	34-5	127	108-9	65-4	187	160-3	96-3	247	211-7	137-2
8	06-9	04-1	68	58-3	35-0	128	109-7	65-9	188	161-1	96-8	248	212-6	137-7
9	07-7	04-6	69	59-1	35-5	129	110-6	66-4	189	162-0	97-3	249	213-4	138-2
10	08-6	05-2	70	60-0	36-1	130	111-4	67-0	190	162-9	97-9	250	214-3	138-8
11	09-4	05-7	71	60-9	36-6	131	112-3	67-5	191	163-7	98-4	251	215-1	139-3
12	10-3	06-2	72	61-7	37-1	132	113-1	68	192	164-6	98-9	252	216-0	139-8
13	11-1	06-7	73	62-6	37-6	133	114-0	68-5	193	165-4	99-4	253	216-9	140-3
14	12-0	07-2	74	63-4	38-1	134	114-9	69-0	194	166-3	99-9	254	217-7	140-8
15	12-9	07-7	75	64-3	38-6	135	115-7	69-5	195	167-1	100-4	255	218-6	141-3
16	13-7	08-2	76	65-1	39-1	136	116-6	70-0	196	168-0	100-9	256	219-4	141-8
17	14-6	08-8	77	66-0	39-7	137	117-4	70-6	197	168-9	101-5	257	220-3	142-3
18	15-4	09-3	78	66-9	40-2	138	118-3	71-1	198	169-7	102-0	258	221-1	142-8
19	16-3	09-8	79	67-7	40-7	139	119-1	71-6	199	170-6	102-5	259	222-0	143-3
20	17-1	10-3	80	68-6	41-2	140	120-0	72-1	200	171-4	103-0	260	222-9	143-8
21	18-0	10-8	81	69-4	41-7	141	120-9	72-6	201	172-3	103-5	261	223-7	144-3
22	18-9	11-3	82	70-3	42-2	142	121-7	73-1	202	173-1	104-0	262	224-6	144-8
23	19-7	11-8	83	71-1	42-7	143	122-6	73-7	203	174-0	104-6	263	225-4	145-3
24	20-6	12-4	84	72-0	43-3	144	123-4	74-2	204	174-9	105-1	264	226-3	145-8
25	21-4	12-9	85	72-9	43-8	145	124-3	74-7	205	175-7	105-6	265	227-1	146-3
26	22-3	13-4	86	73-7	44-3	146	125-1	75-2	206	176-6	106-1	266	228-0	146-8
27	23-1	13-9	87	74-6	44-8	147	126-0	75-7	207	177-4	106-6	267	228-9	147-3
28	24-0	14-4	88	75-4	45-3	148	126-9	76-2	208	178-3	107-1	268	229-7	147-8
29	24-9	14-9	89	76-3	45-8	149	127-7	76-7	209	179-1	107-6	269	230-6	148-3
30	25-7	15-5	90	77-1	46-4	150	128-6	77-3	210	180-0	108-2	270	231-4	148-8
31	26-6	16-0	91	78-0	46-9	151	129-4	77-8	211	180-9	108-7	271	232-3	149-3
32	27-4	16-5	92	78-9	47-4	152	130-3	78-3	212	181-7	109-2	272	233-1	149-8
33	28-3	17-0	93	79-7	47-9	153	131-1	78-8	213	182-6	109-7	273	234-0	150-3
34	29-1	17-5	94	80-6	48-4	154	132-0	79-3	214	183-4	110-2	274	234-9	150-8
35	30-0	18-0	95	81-4	48-9	155	132-9	79-8	215	184-3	110-7	275	235-7	151-3
36	30-9	18-5	96	82-3	49-4	156	133-7	80-3	216	185-1	111-2	276	236-6	151-8
37	31-7	19-1	97	83-1	50-0	157	134-6	80-9	217	186-0	111-8	277	237-4	152-3
38	32-6	19-6	98	84-0	50-5	158	135-4	81-4	218	186-9	112-3	278	238-3	152-8
39	33-4	20-1	99	84-9	51-0	159	136-3	81-9	219	187-7	112-8	279	239-1	153-3
40	34-3	20-6	100	85-7	51-5	160	137-1	82-4	220	188-6	113-3	280	240-0	153-8
41	35-1	21-1	101	86-6	52-0	161	138-0	82-9	221	189-4	113-8	281	240-9	154-3
42	36-0	21-6	102	87-4	52-5	162	138-9	83-4	222	190-3	114-3	282	241-7	154-8
43	36-9	22-1	103	88-3	53-0	163	139-7	84-0	223	191-1	114-9	283	242-6	155-3
44	37-7	22-7	104	89-1	53-6	164	140-6	84-5	224	192-0	115-4	284	243-4	155-8
45	38-6	23-2	105	90-0	54-1	165	141-4	85-0	225	192-9	115-9	285	244-3	156-3
46	39-4	23-7	106	90-9	54-6	166	142-3	85-5	226	193-7	116-4	286	245-1	156-8
47	40-3	24-2	107	91-7	55-1	167	143-1	86-0	227	194-6	116-9	287	246-0	157-3
48	41-1	24-7	108	92-6	55-6	168	144-0	86-5	228	195-4	117-4	288	246-9	157-8
49	42-0	25-2	109	93-4	56-1	169	144-9	87-0	229	196-3	117-9	289	247-7	158-3
50	42-9	25-8	110	94-3	56-7	170	145-7	87-6	230	197-1	118-5	290	248-6	158-8
51	43-7	26-3	111	95-1	57-2	171	146-6	88-1	231	198-0	119-0	291	249-4	159-3
52	44-6	26-8	112	96-0	57-7	172	147-4	88-6	232	198-9	119-5	292	250-3	159-8
53	45-4	27-3	113	96-9	58-2	173	148-3	89-1	233	199-7	120-0	293	251-1	160-3
54	46-3	27-8	114	97-7	58-7	174	149-1	89-6	234	200-6	120-5	294	252-0	160-8
55	47-1	28-3	115	98-6	59-2	175	150-0	90-1	235	201-4	121-0	295	252-9	161-3
56	48-0	28-8	116	99-4	59-7	176	150-9	90-6	236	202-3	121-5	296	253-7	161-8
57	48-9	29-4	117	100-3	60-3	177	151-7	91-2	237	203-1	122-1	297	254-6	162-3
58	49-7	29-9	118	101-1	60-8	178	152-6	91-7	238	204-0	122-6	298	255-4	162-8
59	50-6	30-4	119	102-0	61-3	179	153-4	92-2	239	204-9	123-1	299	256-3	163-3
60	51-4	30-9	120	102-9	61-8	180	154-3	92-7	240	205-7	123-6	300	257-1	163-8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

DIFFERENCE OF LATITUDE AND DEPARTURE.

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For 32°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-8	00-5	61	51-7	32-3	121	102-6	64-1	181	153-5	95-9	241	204-4	127-7
2	01-7	01-1	62	52-6	32-9	122	103-5	64-7	182	154-3	96-4	242	205-2	128-2
3	02-5	01-6	63	53-4	33-4	123	104-3	65-2	183	155-2	97-0	243	206-1	128-8
4	03-4	02-1	64	54-3	33-9	124	105-2	65-7	184	156-0	97-5	244	206-9	129-3
5	04-2	02-8	65	55-1	34-4	125	106-0	66-2	185	156-9	98-0	245	207-8	129-8
6	05-1	03-2	66	56-0	35-0	126	106-9	66-8	186	157-7	98-6	246	208-6	130-4
7	05-9	03-7	67	56-8	35-5	127	107-7	67-3	187	158-6	99-1	247	209-5	130-9
8	06-8	04-2	68	57-7	36-0	128	108-6	67-8	188	159-4	99-6	248	210-3	131-4
9	07-6	04-8	69	58-5	36-6	129	109-4	68-4	189	160-3	100-2	249	211-2	131-9
10	08-5	05-3	70	59-4	37-1	130	110-2	68-9	190	161-1	100-7	250	212-0	132-5
11	09-3	05-8	71	60-2	37-6	131	111-1	69-4	191	162-0	101-2	251	212-9	133-0
12	10-2	06-4	72	61-1	38-2	132	111-9	69-9	192	162-8	101-7	252	213-7	133-6
13	11-0	06-9	73	61-9	38-7	133	112-8	70-5	193	163-7	102-3	253	214-6	134-1
14	11-9	07-4	74	62-8	39-2	134	113-0	71-0	194	164-5	102-8	254	215-4	134-6
15	12-7	07-9	75	63-6	39-7	135	114-5	71-5	195	165-4	103-3	255	216-3	135-1
16	13-6	08-5	76	64-5	40-3	136	115-3	72-1	196	166-2	103-9	256	217-1	135-7
17	14-4	09-0	77	65-3	40-8	137	116-2	72-6	197	167-1	104-4	257	217-9	136-2
18	15-3	09-5	78	66-1	41-3	138	117-0	73-1	198	167-9	104-9	258	218-8	136-7
19	16-1	10-1	79	67-0	41-9	139	117-9	73-7	199	168-8	105-0	259	219-6	137-2
20	17-0	10-6	80	67-8	42-4	140	118-7	74-2	200	169-6	106-0	260	220-5	137-8
21	17-8	11-1	81	68-7	42-9	141	119-6	74-7	201	170-5	106-5	261	221-3	138-3
22	18-7	11-7	82	69-5	43-5	142	120-4	75-2	202	171-3	107-0	262	222-2	138-8
23	19-5	12-2	83	70-4	44-0	143	121-3	75-8	203	172-2	107-6	263	223-0	139-4
24	20-4	12-7	84	71-2	44-5	144	122-1	76-3	204	173-0	108-1	264	223-9	139-9
25	21-2	13-2	85	72-1	45-0	145	123-0	76-8	205	173-8	108-6	265	224-7	140-4
26	22-0	13-8	86	72-9	45-6	146	123-8	77-4	206	174-7	109-2	266	225-6	141-0
27	22-9	14-3	87	73-8	46-1	147	124-7	77-9	207	175-5	109-7	267	226-4	141-5
28	23-7	14-8	88	74-6	46-6	148	125-5	78-4	208	176-4	110-2	268	227-3	142-0
29	24-6	15-4	89	75-5	47-2	149	126-4	79-0	209	177-2	110-8	269	228-1	142-5
30	25-4	15-9	90	76-3	47-7	150	127-2	79-5	210	178-1	111-3	270	229-0	143-1
31	26-3	16-4	91	77-2	48-2	151	128-1	80-0	211	178-9	111-8	271	229-8	143-6
32	27-1	17-0	92	78-0	48-8	152	128-9	80-5	212	179-8	112-3	272	230-7	144-1
33	28-0	17-5	93	78-9	49-3	153	129-8	81-1	213	180-0	112-9	273	231-5	144-7
34	28-8	18-0	94	79-7	49-8	154	130-6	81-6	214	181-5	113-4	274	232-4	145-2
35	29-7	18-5	95	80-6	50-3	155	131-4	82-1	215	182-3	113-9	275	233-2	145-7
36	30-6	19-1	96	81-4	50-9	156	132-3	82-7	216	183-2	114-5	276	234-1	146-3
37	31-4	19-6	97	82-3	51-4	157	133-1	83-2	217	184-0	115-0	277	234-9	146-8
38	32-2	20-1	98	83-1	51-9	158	134-0	83-7	218	184-9	115-5	278	235-8	147-3
39	33-1	20-7	99	84-0	52-5	159	134-8	84-3	219	185-7	116-1	279	236-6	147-8
40	33-9	21-2	100	84-8	53-0	160	135-7	84-8	220	186-6	116-6	280	237-5	148-4
41	34-8	21-7	101	85-7	53-5	161	136-5	85-3	221	187-4	117-1	281	238-3	148-9
42	35-6	22-3	102	86-5	54-1	162	137-4	85-8	222	188-3	117-6	282	239-1	149-4
43	36-5	22-8	103	87-3	54-6	163	138-2	86-4	223	189-1	118-2	283	240-0	150-0
44	37-3	23-3	104	88-2	55-1	164	139-1	86-9	224	190-0	118-7	284	240-8	150-5
45	38-2	23-8	105	89-0	55-6	165	139-9	87-4	225	190-8	119-2	285	241-7	151-0
46	39-0	24-4	106	89-9	56-2	166	140-8	88-0	226	191-7	119-8	286	242-5	151-6
47	39-9	24-9	107	90-7	56-7	167	141-6	88-5	227	192-5	120-3	287	243-4	152-1
48	40-7	25-4	108	91-6	57-2	168	142-5	89-0	228	193-4	120-8	288	244-2	152-6
49	41-6	26-0	109	92-4	57-8	169	143-3	89-6	229	194-2	121-4	289	245-1	153-1
50	42-4	26-5	110	93-3	58-3	170	144-2	90-1	230	195-1	121-9	290	245-9	153-7
51	43-3	27-0	111	94-1	58-8	171	145-0	90-6	231	195-9	122-4	291	246-8	154-2
52	44-1	27-6	112	95-0	59-4	172	145-9	91-1	232	196-7	122-9	292	247-6	154-7
53	44-9	28-1	113	95-8	59-9	173	146-7	91-7	233	197-6	123-5	293	248-5	155-3
54	45-8	28-6	114	96-7	60-4	174	147-6	92-2	234	198-4	124-0	294	249-3	155-8
55	46-6	29-1	115	97-5	60-9	175	148-4	92-7	235	199-3	124-5	295	250-2	156-3
56	47-5	29-7	116	98-4	61-5	176	149-3	93-3	236	200-1	125-1	296	251-0	156-9
57	48-3	30-2	117	99-2	62-0	177	150-1	93-8	237	201-0	125-6	297	251-9	157-4
58	49-2	30-7	118	100-1	62-5	178	151-0	94-3	238	201-8	126-1	298	252-7	157-9
59	50-0	31-3	119	100-9	63-1	179	151-8	94-9	239	202-7	126-7	299	253-6	158-4
60	50-9	31-8	120	101-8	63-6	180	152-6	95-4	240	203-5	127-2	300	254-4	159-0
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.8	00.5	61	51.2	33.2	121	101.5	63.9	181	151.8	98.4	241	202.1	131.3
2	01.7	01.1	62	52.0	33.8	122	102.3	64.4	182	152.6	99.1	242	203.0	131.8
3	02.5	01.6	63	52.8	34.3	123	103.2	64.9	183	153.5	99.7	243	203.8	132.3
4	03.4	02.2	64	53.7	34.9	124	104.0	65.5	184	154.3	100.2	244	204.6	132.9
5	04.2	02.7	65	54.5	35.4	125	104.8	66.1	185	155.2	100.8	245	205.5	133.4
6	05.0	03.3	66	55.4	35.9	126	105.7	66.8	186	156.0	101.3	246	206.3	134.0
7	05.9	03.8	67	56.2	36.5	127	106.5	67.2	187	156.8	101.8	247	207.2	134.5
8	06.7	04.4	68	57.0	37.0	128	107.3	67.7	188	157.7	102.4	248	208.0	135.1
9	07.5	04.9	69	57.9	37.6	129	108.2	70.3	189	158.5	102.9	249	208.8	135.6
10	08.4	05.4	70	58.7	38.1	130	109.0	70.8	190	159.3	103.5	250	209.7	136.2
11	09.2	06.0	71	59.5	38.7	131	109.9	71.1	191	160.2	104.0	251	210.5	136.7
12	10.1	06.5	72	60.4	39.2	132	110.7	71.4	192	161.0	104.6	252	211.3	137.2
13	10.9	07.1	73	61.2	39.8	133	111.5	71.7	193	161.9	105.1	253	212.2	137.8
14	11.7	07.6	74	62.1	40.3	134	112.4	73.0	194	162.7	105.7	254	213.0	138.3
15	12.6	08.2	75	62.9	40.8	135	113.2	73.5	195	163.5	106.2	255	213.9	138.9
16	13.4	08.7	76	63.7	41.4	136	114.1	74.1	196	164.4	106.7	256	214.7	139.4
17	14.3	09.3	77	64.6	41.9	137	114.9	74.6	197	165.2	107.3	257	215.5	140.0
18	15.1	09.8	78	65.4	42.5	138	115.7	75.2	198	166.1	107.8	258	216.4	140.5
19	15.9	10.3	79	66.3	43.0	139	116.6	75.7	199	166.9	108.4	259	217.2	141.1
20	16.8	10.9	80	67.1	43.6	140	117.4	76.2	200	167.7	108.9	260	218.1	141.6
21	17.6	11.4	81	67.9	44.1	141	118.3	76.8	201	168.6	109.5	261	218.9	142.2
22	18.5	12.0	82	68.8	44.7	142	119.1	77.3	202	169.4	110.0	262	219.7	142.7
23	19.3	12.5	83	69.6	45.2	143	119.9	77.9	203	170.3	110.6	263	220.6	143.2
24	20.1	13.1	84	70.4	45.7	144	120.8	78.4	204	171.1	111.1	264	221.4	143.8
25	21.0	13.6	85	71.3	46.3	145	121.6	79.0	205	171.9	111.7	265	222.2	144.3
26	21.8	14.2	86	72.1	46.8	146	122.4	79.5	206	172.8	112.2	266	223.1	144.9
27	22.6	14.7	87	73.0	47.4	147	123.3	80.1	207	173.6	112.7	267	223.9	145.4
28	23.5	15.2	88	73.8	47.9	148	124.1	80.6	208	174.4	113.3	268	224.8	146.0
29	24.3	15.8	89	74.6	48.5	149	125.0	81.2	209	175.3	113.8	269	225.6	146.5
30	25.2	16.3	90	75.5	49.0	150	125.8	81.7	210	176.1	114.4	270	226.4	147.1
31	26.0	16.9	91	76.3	49.6	151	126.6	82.2	211	177.0	114.9	271	227.3	147.6
32	26.8	17.4	92	77.2	50.1	152	127.5	82.8	212	177.8	115.5	272	228.1	148.1
33	27.7	18.0	93	78.0	50.7	153	128.3	83.3	213	178.6	116.0	273	229.0	148.7
34	28.5	18.5	94	78.8	51.2	154	129.2	83.9	214	179.5	116.6	274	229.8	149.2
35	29.4	19.1	95	79.7	51.7	155	130.0	84.4	215	180.3	117.1	275	230.6	149.8
36	30.2	19.6	96	80.5	52.3	156	130.8	85.0	216	181.2	117.6	276	231.5	150.3
37	31.0	20.2	97	81.4	52.8	157	131.7	85.6	217	182.0	118.2	277	232.3	150.9
38	31.9	20.7	98	82.2	53.4	158	132.5	86.1	218	182.8	118.7	278	233.2	151.4
39	32.7	21.2	99	83.0	53.9	159	133.3	86.6	219	183.7	119.3	279	234.0	152.0
40	33.5	21.8	100	83.9	54.5	160	134.2	87.1	220	184.5	119.8	280	234.8	152.5
41	34.4	22.3	101	84.7	55.0	161	135.0	87.7	221	185.3	120.4	281	235.7	153.0
42	35.2	22.9	102	85.5	55.6	162	135.9	88.2	222	186.2	120.9	282	236.5	153.6
43	36.1	23.4	103	86.4	56.1	163	136.7	88.8	223	187.0	121.5	283	237.3	154.1
44	36.9	24.0	104	87.2	56.6	164	137.5	89.3	224	187.9	122.0	284	238.2	154.7
45	37.7	24.5	105	88.1	57.2	165	138.4	89.9	225	188.7	122.5	285	239.0	155.2
46	38.6	25.1	106	88.9	57.7	166	139.2	90.4	226	189.5	123.1	286	239.9	155.8
47	39.4	25.6	107	89.7	58.3	167	140.1	91.0	227	190.4	123.6	287	240.7	156.3
48	40.3	26.1	108	90.6	58.8	168	140.9	91.5	228	191.2	124.2	288	241.6	156.9
49	41.1	26.7	109	91.4	59.4	169	141.7	92.0	229	192.1	124.7	289	242.4	157.4
50	41.9	27.2	110	92.3	59.9	170	142.6	92.6	230	192.9	125.3	290	243.2	157.9
51	42.8	27.8	111	93.1	60.5	171	143.4	93.1	231	193.7	125.8	291	244.1	158.5
52	43.6	28.3	112	93.9	61.0	172	144.3	93.7	232	194.6	126.4	292	244.9	159.0
53	44.4	28.9	113	94.8	61.5	173	145.1	94.2	233	195.4	126.9	293	245.7	159.6
54	45.3	29.4	114	95.6	62.1	174	145.9	94.8	234	196.2	127.4	294	246.6	160.1
55	46.1	30.0	115	96.4	62.6	175	146.8	95.3	235	197.1	128.0	295	247.4	160.7
56	47.0	30.5	116	97.3	63.2	176	147.6	95.9	236	197.9	128.5	296	248.2	161.2
57	47.8	31.0	117	98.1	63.7	177	148.4	96.4	237	198.8	129.1	297	249.1	161.8
58	48.6	31.6	118	99.0	64.3	178	149.3	96.9	238	199.6	129.6	298	249.9	162.3
59	49.5	32.1	119	99.8	64.8	179	150.1	97.5	239	200.4	130.2	299	250.8	162.8
60	50.3	32.7	120	100.6	65.4	180	151.0	98.0	240	201.3	130.7	300	251.6	163.4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

DIFFERENCE OF LATITUDE AND DEPARTURE.

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For 34°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-8	00-6	61	50-6	34-1	121	100-3	67-7	181	150-1	101-2	241	199-8	134-8
2	01-7	01-1	62	51-4	34-7	122	101-1	68-2	182	150-9	101-8	242	200-6	135-8
3	02-5	01-7	63	52-2	35-2	123	102-0	68-8	183	151-7	102-3	243	201-5	135-9
4	03-3	02-2	64	53-1	35-8	124	102-8	69-3	184	152-5	102-9	244	202-3	136-4
5	04-1	02-8	65	53-9	36-3	125	103-6	69-9	185	153-4	103-3	245	203-1	137-0
6	05-0	03-4	66	54-7	36-9	126	104-5	70-5	186	154-2	104-0	246	203-9	137-6
7	05-8	03-9	67	55-5	37-5	127	105-3	71-0	187	155-0	104-6	247	204-8	138-1
8	06-6	04-5	68	56-4	38-0	128	106-1	71-6	188	155-9	105-1	248	205-6	138-7
9	07-5	05-0	69	57-2	38-6	129	106-9	72-1	189	156-7	105-7	249	206-4	139-2
10	08-3	05-6	70	58-0	39-1	130	107-8	72-7	190	157-5	106-2	250	207-3	139-8
11	09-1	06-2	71	58-9	39-7	131	108-6	73-3	191	158-3	106-8	251	208-1	140-4
12	09-9	06-7	72	59-7	40-3	132	109-4	73-8	192	159-2	107-4	252	208-9	140-9
13	10-8	07-3	73	60-5	40-8	133	110-3	74-4	193	160-0	107-9	253	209-7	141-5
14	11-6	07-8	74	61-3	41-4	134	111-1	74-9	194	160-8	108-5	254	210-6	142-0
15	12-4	08-1	75	62-2	41-9	135	111-9	75-5	195	161-7	109-0	255	211-4	142-6
16	13-3	08-9	76	63-0	42-5	136	112-7	76-1	196	162-5	109-6	256	212-2	143-2
17	14-1	09-5	77	63-8	43-1	137	113-6	76-6	197	163-3	110-2	257	213-1	143-7
18	14-9	10-1	78	64-7	43-6	138	114-4	77-2	198	164-1	110-7	258	213-9	144-3
19	15-8	10-6	79	65-5	44-2	139	115-2	77-7	199	165-0	111-3	259	214-7	144-8
20	16-6	11-2	80	66-3	44-7	140	116-1	78-3	200	165-8	111-8	260	215-5	145-4
21	17-4	11-7	81	67-2	45-3	141	116-9	78-8	201	166-6	112-4	261	216-4	145-9
22	18-2	12-3	82	68-0	45-9	142	117-7	79-4	202	167-5	113-0	262	217-2	146-5
23	19-1	12-9	83	68-8	46-4	143	118-6	80-0	203	168-3	113-5	263	218-0	147-1
24	19-9	13-4	84	69-6	47-0	144	119-4	80-5	204	169-1	114-1	264	218-9	147-6
25	20-7	14-0	85	70-5	47-5	145	120-2	81-1	205	170-0	114-6	265	219-7	148-2
26	21-6	14-5	86	71-3	48-1	146	121-0	81-6	206	170-8	115-2	266	220-5	148-7
27	22-4	15-1	87	72-1	48-6	147	121-9	82-2	207	171-6	115-8	267	221-4	149-3
28	23-2	15-7	88	73-0	49-2	148	122-7	82-8	208	172-4	116-3	268	222-2	149-9
29	24-0	16-2	89	73-8	49-8	149	123-5	83-3	209	173-3	116-9	269	223-0	150-4
30	24-9	16-8	90	74-6	50-3	150	124-4	83-9	210	174-1	117-4	270	223-8	151-0
31	25-7	17-3	91	75-4	50-9	151	125-2	84-4	211	174-9	118-0	271	224-7	151-5
32	26-5	17-9	92	76-3	51-4	152	126-0	85-0	212	175-8	118-5	272	225-5	152-1
33	27-4	18-5	93	77-1	52-0	153	126-8	85-6	213	176-6	119-1	273	226-3	152-7
34	28-2	19-0	94	77-9	52-6	154	127-7	86-1	214	177-4	119-7	274	227-2	153-2
35	29-0	19-6	95	78-8	53-1	155	128-5	86-7	215	178-2	120-2	275	228-0	153-8
36	29-8	20-1	96	79-6	53-7	156	129-3	87-2	216	179-1	120-8	276	228-8	154-3
37	30-7	20-7	97	80-4	54-2	157	130-2	87-8	217	179-9	121-3	277	229-6	154-9
38	31-5	21-2	98	81-2	54-8	158	131-0	88-4	218	180-7	121-9	278	230-5	155-5
39	32-3	21-8	99	82-1	55-4	159	131-8	88-9	219	181-6	122-5	279	231-3	156-0
40	33-2	22-4	100	82-9	55-9	160	132-6	89-5	220	182-4	123-0	280	232-1	156-6
41	34-0	22-9	101	83-7	56-5	161	133-5	90-0	221	183-2	123-6	281	233-0	157-1
42	34-8	23-5	102	84-6	57-0	162	134-3	90-6	222	184-0	124-1	282	233-8	157-7
43	35-6	24-0	103	85-4	57-6	163	135-1	91-1	223	184-9	124-7	283	234-6	158-3
44	36-5	24-6	104	86-2	58-2	164	136-0	91-7	224	185-7	125-3	284	235-4	158-8
45	37-3	25-2	105	87-0	58-7	165	136-8	92-3	225	186-5	125-8	285	236-3	159-4
46	38-1	25-7	106	87-9	59-3	166	137-6	92-8	226	187-4	126-4	286	237-1	159-9
47	39-0	26-3	107	88-7	59-8	167	138-4	93-4	227	188-3	126-9	287	237-9	160-5
48	39-8	26-8	108	89-5	60-4	168	139-3	93-9	228	189-0	127-5	288	238-8	161-0
49	40-6	27-4	109	90-4	61-0	169	140-1	94-5	229	189-8	128-1	289	239-6	161-6
50	41-5	28-0	110	91-2	61-5	170	140-9	95-1	230	190-7	128-6	290	240-4	162-2
51	42-3	28-5	111	92-0	62-1	171	141-8	95-6	231	191-5	129-2	291	241-2	162-7
52	43-1	29-1	112	92-9	62-6	172	142-6	96-2	232	192-3	129-7	292	242-1	163-3
53	43-9	29-5	113	93-7	63-2	173	143-4	96-7	233	193-2	130-3	293	242-9	163-8
54	44-8	30-2	114	94-5	63-7	174	144-3	97-3	234	194-0	130-9	294	243-7	164-4
55	45-6	30-8	115	95-3	64-3	175	145-1	97-9	235	194-8	131-4	295	244-6	165-0
56	46-4	31-3	116	96-2	64-9	176	145-9	98-4	236	195-7	132-0	296	245-4	165-5
57	47-3	31-9	117	97-0	65-4	177	146-7	99-0	237	196-5	132-5	297	246-2	166-1
58	48-1	32-4	118	97-8	66-0	178	147-6	99-5	238	197-3	133-1	298	247-1	166-6
59	48-9	33-0	119	98-7	66-5	179	148-4	100-1	239	198-1	133-6	299	247-9	167-2
60	49-7	33-6	120	99-5	67-1	180	149-2	100-7	240	199-0	134-2	300	248-7	167-8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

55°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00°0'	00'0"	61	50°0'	35'0"	121	99°1'	69'4"	181	148°3'	103°8'	241	197°4'	138°2'
2	01°0'	01'0"	62	50°8'	35'6"	122	99°9'	70°0"	182	149°1'	104°4'	242	198°2'	138°8'
3	02°0'	02'0"	63	51°6'	35'12"	123	100°8'	70°5"	183	149°9'	105°0"	243	199°0'	139°4'
4	03°0'	03'0"	64	52°4'	35'18"	124	101°6'	71°1"	184	150°7'	105°5"	244	199°8'	140°0"
5	04°0'	04'0"	65	53°2'	35'24"	125	102°4'	71°7"	185	151°5'	106°1"	245	200°7'	140°6"
6	04°9'	03°4'	66	54°1'	37°9"	126	103°2'	72°3"	186	152°4'	106°7"	246	201°5'	141°1"
7	05°7'	04°0'	67	54°9'	38°4"	127	104°0'	72°8"	187	153°2'	107°3"	247	202°3'	141°7"
8	06°6'	04°6'	68	55°7'	39°0"	128	104°9'	73°4"	188	154°0'	107°8"	248	203°1'	142°2"
9	07°4'	05°2'	69	56°5'	39°6"	129	105°7'	74°0"	189	154°8'	108°1"	249	204°0'	142°8"
10	08°2'	05°7'	70	57°3'	40°2"	130	106°5'	74°6"	190	155°6'	109°0"	250	204°8'	143°4"
11	09°0'	06°3'	71	58°2'	40°7"	131	107°3'	75°1"	191	156°5'	109°6"	251	205°6'	144°0"
12	09°8'	06°9'	72	59°0'	41°3"	132	108°1'	75°7"	192	157°3'	110°1"	252	206°4'	144°5"
13	10°6'	07°6'	73	59°8'	41°9"	133	108°9'	76°3"	193	158°1'	110°7"	253	207°2'	145°1"
14	11°5'	08°0'	74	60°6'	42°4"	134	109°8'	76°9"	194	158°9'	111°3"	254	208°1'	145°7"
15	12°3'	08°6'	75	61°4'	43°0"	135	110°6'	77°4"	195	159°7'	111°8"	255	208°9'	146°3"
16	13°1'	09°2'	76	62°2'	43°6"	136	111°4'	78°0"	196	160°6'	112°4"	256	209°7'	146°8"
17	13°9'	09°8'	77	63°1'	44°2"	137	112°2'	78°6"	197	161°4'	113°0"	257	210°5'	147°4"
18	14°7'	10°3'	78	63°9'	44°7"	138	113°0'	79°2"	198	162°2'	113°6"	258	211°3'	148°0"
19	15°6'	10°9'	79	64°7'	45°3"	139	113°9'	79°7"	199	163°0'	114°1"	259	212°2'	148°6"
20	16°4'	11°5'	80	65°5'	45°9"	140	114°7'	80°3"	200	163°8'	114°7"	260	213°0'	149°1"
21	17°2'	12°0'	81	66°4'	46°5"	141	115°5'	80°9"	201	164°6'	115°3"	261	213°8'	149°7"
22	18°0'	12°6'	82	67°2'	47°0"	142	116°3'	81°4"	202	165°5'	115°9"	262	214°6'	150°3"
23	18°8'	13°2'	83	68°0'	47°6"	143	117°1'	82°0"	203	166°3'	116°4"	263	215°4'	150°9"
24	19°7'	13°8'	84	68°8'	48°2"	144	118°0'	82°6"	204	167°1'	117°0"	264	216°3'	151°4"
25	20°5'	14°3'	85	69°6'	48°8"	145	118°8'	83°2"	205	167°9'	117°6"	265	217°1'	152°0"
26	21°3'	14°9'	86	70°4'	49°3"	146	119°6'	83°7"	206	168°7'	118°2"	266	217°9'	152°6"
27	22°1'	15°5'	87	71°3'	49°9"	147	120°4'	84°3"	207	169°6'	118°7"	267	218°7'	153°1"
28	22°9'	16°1'	88	72°1'	50°5"	148	121°2'	84°9"	208	170°4'	119°3"	268	219°5'	153°7"
29	23°8'	16°6'	89	72°9'	51°0"	149	122°1'	85°5"	209	171°2'	119°9"	269	220°4'	154°3"
30	24°6'	17°2'	90	73°7'	51°6"	150	122°9'	86°0"	210	172°0'	120°5"	270	221°2'	154°9"
31	25°4'	17°8'	91	74°5'	52°2"	151	123°7'	86°6"	211	172°8'	121°0"	271	222°0'	155°4"
32	26°2'	18°4'	92	75°4'	52°8"	152	124°5'	87°2"	212	173°7'	121°6"	272	222°8'	156°0"
33	27°0'	18°9'	93	76°2'	53°3"	153	125°3'	87°8"	213	174°5'	122°2"	273	223°6'	156°6"
34	27°9'	19°6'	94	77°0'	53°9"	154	126°1'	88°3"	214	175°3'	122°7"	274	224°4'	157°2"
35	28°7'	20°1'	95	77°8'	54°5"	155	126°9'	88°9"	215	176°1'	123°3"	275	225°3'	157°7"
36	29°5'	20°6'	96	78°6'	55°1"	156	127°8'	89°5"	216	176°9'	123°9"	276	226°1'	158°3"
37	30°3'	21°2'	97	79°5'	55°6"	157	128°6'	90°1"	217	177°8'	124°5"	277	226°9'	158°9"
38	31°1'	21°8'	98	80°3'	56°2"	158	129°4'	90°6"	218	178°6'	125°0"	278	227°7'	159°5"
39	31°9'	22°4'	99	81°1'	56°8"	159	130°2'	91°2"	219	179°4'	125°6"	279	228°5'	160°0"
40	32°8'	22°9'	100	81°9'	57°4"	160	131°1'	91°8"	220	180°2'	126°2"	280	229°4'	160°6"
41	33°6'	23°5'	101	82°7'	57°9"	161	131°9'	92°3"	221	181°0'	126°8"	281	230°2'	161°2"
42	34°4'	24°1'	102	83°6'	58°5"	162	132°7'	92°9"	222	181°9'	127°3"	282	231°0'	161°7"
43	35°2'	24°7'	103	84°4'	59°1"	163	133°5'	93°5"	223	182°7'	127°9"	283	231°8'	162°3"
44	36°0'	25°2'	104	85°2'	59°7"	164	134°3'	94°1"	224	183°5'	128°5"	284	232°6'	162°9"
45	36°9'	25°8'	105	86°0'	60°3"	165	135°2'	94°6"	225	184°3'	129°1"	285	233°5'	163°5"
46	37°7'	26°4'	106	86°8'	60°8"	166	136°0'	95°2"	226	185°1'	129°6"	286	234°3'	164°0"
47	38°5'	27°0'	107	87°6'	61°4"	167	136°8'	95°8"	227	185°9'	130°2"	287	235°1'	164°6"
48	39°3'	27°5'	108	88°5'	61°9"	168	137°6'	96°4"	228	186°8'	130°8"	288	235°9'	165°2"
49	40°1'	28°1'	109	89°3'	62°5"	169	138°4'	96°9"	229	187°6'	131°3"	289	236°7'	165°8"
50	41°0'	28°7'	110	90°1'	63°1"	170	139°3'	97°5"	230	188°4'	131°9"	290	237°6'	166°3"
51	41°8'	29°3'	111	90°9'	63°7"	171	140°1'	98°1"	231	189°2'	132°5"	291	238°4'	166°9"
52	42°6'	29°8'	112	91°7'	64°2"	172	140°9'	98°7"	232	190°0'	133°1"	292	239°2'	167°5"
53	43°4'	30°4'	113	92°5'	64°8"	173	141°7'	99°2"	233	190°9'	133°6"	293	240°0'	168°1"
54	44°2'	31°0'	114	93°4'	65°4"	174	142°5'	99°8"	234	191°7'	134°2"	294	240°8'	168°6"
55	45°1'	31°5'	115	94°2'	66°0"	175	143°4'	100°4"	235	192°5'	134°8"	295	241°6'	169°2"
56	45°9'	32°1'	116	95°0'	66°5"	176	144°2'	100°9"	236	193°3'	135°4"	296	242°5'	169°8"
57	46°7'	32°7'	117	95°8'	67°1"	177	145°0'	101°5"	237	194°1'	135°9"	297	243°3'	170°4"
58	47°5'	33°3'	118	96°7'	67°7"	178	145°8'	102°1"	238	195°0'	136°5"	298	244°1'	170°9"
59	48°3'	33°8'	119	97°5'	68°3"	179	146°6'	102°7"	239	195°8'	137°1"	299	244°9'	171°5"
60	49°1'	34°4'	120	98°3'	68°8"	180	147°4'	103°2"	240	196°6'	137°7"	300	245°7'	172°1"
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 36°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.8	00.6	61	49.4	35.9	121	97.9	71.1	181	146.4	100.4	241	195.0	141.7
2	01.6	01.2	62	50.2	36.4	122	98.7	71.7	182	147.2	107.0	242	195.8	142.2
3	02.4	01.8	63	51.0	37.0	123	99.5	72.3	183	148.1	107.6	243	196.6	142.8
4	03.2	02.4	64	51.8	37.6	124	100.3	72.9	184	148.9	108.2	244	197.4	143.4
5	04.0	02.9	65	52.6	38.2	125	101.1	73.5	185	149.7	108.7	245	198.2	144.0
6	04.9	03.5	66	53.4	38.8	126	101.9	74.1	186	150.5	109.3	246	199.0	144.6
7	05.7	04.1	67	54.2	39.4	127	102.7	74.6	187	151.3	109.9	247	199.8	145.2
8	06.5	04.7	68	55.0	40.0	128	103.6	75.2	188	152.1	110.5	248	200.6	145.8
9	07.3	05.3	69	55.8	40.6	129	104.4	75.8	189	152.9	111.1	249	201.4	146.4
10	08.1	05.9	70	56.6	41.1	130	105.2	76.4	190	153.7	111.7	250	202.2	146.9
11	08.9	06.5	71	57.4	41.7	131	106.0	77.0	191	154.5	112.3	251	203.1	147.5
12	09.7	07.1	72	58.2	42.3	132	106.8	77.6	192	155.3	112.9	252	203.9	148.1
13	10.5	07.6	73	59.1	42.9	133	107.6	78.2	193	156.1	113.4	253	204.7	148.7
14	11.3	08.2	74	59.9	43.5	134	108.4	78.8	194	156.9	114.0	254	205.5	149.3
15	12.1	08.8	75	60.7	44.1	135	109.2	79.4	195	157.8	114.6	255	206.3	149.9
16	12.9	09.4	76	61.5	44.7	136	110.0	79.9	196	158.6	115.2	256	207.1	150.5
17	13.8	10.0	77	62.3	45.3	137	110.8	80.5	197	159.4	115.8	257	207.9	151.1
18	14.6	10.6	78	63.1	45.8	138	111.6	81.0	198	160.2	116.4	258	208.7	151.6
19	15.4	11.2	79	63.9	46.4	139	112.5	81.7	199	161.0	117.0	259	209.5	152.2
20	16.2	11.8	80	64.7	47.0	140	113.3	82.3	200	161.8	117.6	260	210.3	152.8
21	17.0	12.3	81	65.5	47.6	141	114.1	82.9	201	162.6	118.1	261	211.2	153.4
22	17.8	12.9	82	66.3	48.2	142	114.9	83.5	202	163.4	118.7	262	212.0	154.0
23	18.6	13.5	83	67.1	48.8	143	115.7	84.1	203	164.2	119.3	263	212.8	154.6
24	19.4	14.1	84	68.0	49.4	144	116.5	84.6	204	165.0	119.9	264	213.6	155.2
25	20.2	14.7	85	68.8	50.0	145	117.3	85.2	205	165.8	120.5	265	214.4	155.8
26	21.0	15.3	86	69.6	50.5	146	118.1	85.8	206	166.7	121.1	266	215.2	156.4
27	21.8	15.9	87	70.4	51.1	147	118.9	86.4	207	167.5	121.7	267	216.0	156.9
28	22.7	16.5	88	71.2	51.7	148	119.7	87.0	208	168.3	122.3	268	216.8	157.5
29	23.5	17.0	89	72.0	52.3	149	120.5	87.6	209	169.1	122.8	269	217.6	158.1
30	24.3	17.6	90	72.8	52.9	150	121.4	88.2	210	169.9	123.4	270	218.4	158.7
31	25.1	18.2	91	73.6	53.5	151	122.2	88.8	211	170.7	124.0	271	219.2	159.3
32	25.9	18.8	92	74.4	54.1	152	123.0	89.3	212	171.5	124.6	272	220.1	159.9
33	26.7	19.4	93	75.2	54.7	153	123.8	89.9	213	172.3	125.2	273	220.9	160.5
34	27.5	20.0	94	76.0	55.3	154	124.6	90.5	214	173.1	125.8	274	221.7	161.1
35	28.3	20.6	95	76.9	55.8	155	125.4	91.1	215	173.9	126.4	275	222.5	161.6
36	29.1	21.2	96	77.7	56.4	156	126.2	91.7	216	174.7	127.0	276	223.3	162.2
37	29.9	21.7	97	78.5	57.0	157	127.0	92.3	217	175.6	127.5	277	224.1	162.8
38	30.7	22.3	98	79.3	57.6	158	127.8	92.9	218	176.4	128.1	278	224.9	163.4
39	31.6	22.9	99	80.1	58.2	159	128.6	93.5	219	177.2	128.7	279	225.7	164.0
40	32.4	23.5	100	80.9	58.8	160	129.4	94.0	220	178.0	129.3	280	226.5	164.6
41	33.2	24.1	101	81.7	59.4	161	130.3	94.6	221	178.8	129.9	281	227.3	165.2
42	34.0	24.7	102	82.5	60.0	162	131.1	95.2	222	179.6	130.5	282	228.1	165.8
43	34.8	25.3	103	83.3	60.5	163	131.9	95.8	223	180.4	131.1	283	228.9	166.3
44	35.6	25.9	104	84.1	61.1	164	132.7	96.4	224	181.2	131.7	284	229.8	166.9
45	36.4	26.5	105	84.9	61.7	165	133.5	97.0	225	182.0	132.3	285	230.6	167.5
46	37.2	27.0	106	85.8	62.3	166	134.3	97.6	226	182.8	132.8	286	231.4	168.1
47	38.0	27.6	107	86.6	62.9	167	135.1	98.2	227	183.6	133.4	287	232.2	168.7
48	38.8	28.2	108	87.4	63.5	168	135.9	98.7	228	184.5	134.0	288	233.0	169.3
49	39.6	28.8	109	88.2	64.1	169	136.7	99.3	229	185.3	134.6	289	233.8	169.9
50	40.3	29.4	110	89.0	64.7	170	137.5	99.9	230	186.1	135.2	290	234.6	170.5
51	41.1	30.0	111	89.8	65.2	171	138.3	100.5	231	186.9	135.8	291	235.4	171.0
52	42.1	30.6	112	90.6	65.8	172	139.2	101.1	232	187.7	136.4	292	236.2	171.6
53	42.9	31.2	113	91.4	66.4	173	140.0	101.7	233	188.5	137.0	293	237.0	172.2
54	43.7	31.7	114	92.2	67.0	174	140.8	102.3	234	189.3	137.5	294	237.9	172.8
55	44.5	32.3	115	93.0	67.6	175	141.6	102.9	235	190.1	138.1	295	238.7	173.4
56	45.3	32.9	116	93.8	68.2	176	142.4	103.5	236	190.9	138.7	296	239.5	174.0
57	46.1	33.5	117	94.7	68.8	177	143.2	104.0	237	191.7	139.3	297	240.3	174.6
58	46.9	34.1	118	95.5	69.4	178	144.0	104.6	238	192.5	139.9	298	241.1	175.2
59	47.7	34.7	119	96.3	69.9	179	144.8	105.2	239	193.4	140.5	299	241.9	175.7
60	48.5	35.3	120	97.1	70.5	180	145.6	105.8	240	194.2	141.1	300	242.7	176.3
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-8	00-6	61	48-7	36-7	121	86-6	72-8	181	144-6	108-9	241	192-5	143-0
2	01-6	01-2	62	49-5	37-3	122	87-4	73-4	182	145-4	109-5	242	193-3	143-6
3	02-4	01-8	63	50-3	37-9	123	88-2	74-0	183	146-2	110-1	243	194-1	144-2
4	03-2	02-4	64	51-1	38-5	124	89-0	74-6	184	146-9	110-7	244	194-9	144-8
5	04-0	03-0	65	51-9	39-1	125	89-8	75-2	185	147-7	111-3	245	195-7	145-4
6	04-8	03-6	66	52-7	39-7	126	90-6	75-8	186	148-5	111-9	246	196-5	146-0
7	05-6	04-2	67	53-5	40-3	127	91-4	76-4	187	149-3	112-5	247	197-3	146-6
8	06-4	04-8	68	54-3	40-9	128	92-2	77-0	188	150-1	113-1	248	198-1	147-2
9	07-2	05-4	69	55-1	41-5	129	93-0	77-6	189	150-9	113-7	249	198-9	147-8
10	08-0	06-0	70	55-9	42-1	130	93-8	78-2	190	151-7	114-3	250	199-7	148-4
11	08-8	06-6	71	56-7	42-7	131	94-6	78-8	191	152-5	114-9	251	200-5	149-0
12	09-6	07-2	72	57-5	43-3	132	95-4	79-4	192	153-3	115-5	252	201-3	149-6
13	10-4	07-8	73	58-3	43-9	133	96-2	80-0	193	154-1	116-1	253	202-1	150-2
14	11-2	08-4	74	59-1	44-5	134	97-0	80-6	194	154-9	116-7	254	202-9	150-8
15	12-0	09-0	75	59-9	45-1	135	97-8	81-2	195	155-7	117-3	255	203-7	151-4
16	12-8	09-6	76	60-7	45-7	136	98-6	81-8	196	156-5	117-9	256	204-5	152-0
17	13-6	10-2	77	61-5	46-3	137	99-4	82-4	197	157-3	118-5	257	205-3	152-6
18	14-4	10-8	78	62-3	46-9	138	100-2	83-0	198	158-1	119-1	258	206-1	153-2
19	15-2	11-4	79	63-1	47-5	139	101-0	83-6	199	158-9	119-7	259	206-9	153-8
20	16-0	12-0	80	63-9	48-1	140	101-8	84-2	200	159-7	120-3	260	207-7	154-4
21	16-8	12-6	81	64-7	48-7	141	102-6	84-8	201	160-5	120-9	261	208-5	155-0
22	17-6	13-2	82	65-5	49-3	142	103-4	85-4	202	161-3	121-5	262	209-3	155-6
23	18-4	13-8	83	66-3	50-0	143	104-2	86-0	203	162-1	122-1	263	210-1	156-2
24	19-2	14-4	84	67-1	50-6	144	105-0	86-6	204	162-9	122-7	264	210-9	156-8
25	20-0	15-0	85	67-9	51-2	145	105-8	87-2	205	163-7	123-3	265	211-7	157-4
26	20-8	15-6	86	68-7	51-8	146	106-6	87-8	206	164-5	123-9	266	212-5	158-0
27	21-6	16-2	87	69-5	52-4	147	107-4	88-4	207	165-3	124-5	267	213-3	158-6
28	22-4	16-8	88	70-3	53-0	148	108-2	89-0	208	166-1	125-1	268	214-1	159-2
29	23-2	17-4	89	71-1	53-6	149	109-0	89-6	209	166-9	125-7	269	214-9	159-8
30	24-0	18-0	90	71-9	54-2	150	109-8	90-2	210	167-7	126-3	270	215-7	160-4
31	24-8	18-6	91	72-7	54-8	151	110-6	90-8	211	168-5	126-9	271	216-5	161-0
32	25-6	19-2	92	73-5	55-4	152	111-4	91-4	212	169-3	127-5	272	217-3	161-6
33	26-4	19-8	93	74-3	56-0	153	112-2	92-0	213	170-1	128-1	273	218-1	162-2
34	27-2	20-4	94	75-1	56-6	154	113-0	92-6	214	170-9	128-7	274	218-9	162-8
35	28-0	21-0	95	75-9	57-2	155	113-8	93-2	215	171-7	129-3	275	219-7	163-4
36	28-8	21-6	96	76-7	57-8	156	114-6	93-8	216	172-5	130-0	276	220-5	164-0
37	29-6	22-2	97	77-5	58-4	157	115-4	94-4	217	173-3	130-6	277	221-3	164-6
38	30-4	22-8	98	78-3	59-0	158	116-2	95-0	218	174-1	131-2	278	222-1	165-2
39	31-2	23-4	99	79-1	59-6	159	117-0	95-6	219	174-9	131-8	279	222-9	165-8
40	32-0	24-0	100	79-9	60-2	160	117-8	96-2	220	175-7	132-4	280	223-7	166-4
41	32-8	24-6	101	80-7	60-8	161	118-6	96-8	221	176-5	133-0	281	224-5	167-0
42	33-6	25-2	102	81-5	61-4	162	119-4	97-4	222	177-3	133-6	282	225-3	167-6
43	34-4	25-8	103	82-3	62-0	163	120-2	98-0	223	178-1	134-2	283	226-1	168-2
44	35-2	26-4	104	83-1	62-6	164	121-0	98-6	224	178-9	134-8	284	226-9	168-8
45	36-0	27-0	105	83-9	63-2	165	121-8	99-2	225	179-7	135-4	285	227-7	169-4
46	36-8	27-6	106	84-7	63-8	166	122-6	99-8	226	180-5	136-0	286	228-5	170-0
47	37-6	28-2	107	85-5	64-4	167	123-4	100-4	227	181-3	136-6	287	229-3	170-6
48	38-4	28-8	108	86-3	65-0	168	124-2	101-0	228	182-1	137-2	288	230-1	171-2
49	39-2	29-4	109	87-1	65-6	169	125-0	101-6	229	182-9	137-8	289	230-9	171-8
50	40-0	30-0	110	87-9	66-2	170	125-8	102-2	230	183-7	138-4	290	231-7	172-4
51	40-8	30-6	111	88-7	66-8	171	126-6	102-8	231	184-5	139-0	291	232-5	173-0
52	41-6	31-2	112	89-5	67-4	172	127-4	103-4	232	185-3	139-6	292	233-3	173-6
53	42-4	31-8	113	90-3	68-0	173	128-2	104-0	233	186-1	140-2	293	234-1	174-2
54	43-2	32-4	114	91-1	68-6	174	129-0	104-6	234	186-9	140-8	294	234-9	174-8
55	44-0	33-0	115	91-9	69-2	175	129-8	105-2	235	187-7	141-4	295	235-7	175-4
56	44-8	33-6	116	92-7	69-8	176	130-6	105-8	236	188-5	142-0	296	236-5	176-0
57	45-6	34-2	117	93-5	70-4	177	131-4	106-4	237	189-3	142-6	297	237-3	176-6
58	46-4	34-8	118	94-3	71-0	178	132-2	107-0	238	190-1	143-2	298	238-1	177-2
59	47-2	35-4	119	95-1	71-6	179	133-0	107-6	239	190-9	143-8	299	238-9	177-8
60	48-0	36-0	120	95-9	72-2	180	133-8	108-2	240	191-7	144-4	300	239-7	178-4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 38°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.8	00.6	61	48.1	37.6	121	93.3	74.5	181	142.6	111.4	241	189.9	148.4
2	01.6	01.2	62	48.9	38.2	122	96.1	75.1	182	143.4	112.1	242	190.7	149.0
3	02.4	01.8	63	49.6	38.8	123	96.9	75.7	183	144.2	112.7	243	191.5	149.6
4	03.2	02.5	64	50.4	39.4	124	97.7	76.3	184	145.0	113.3	244	192.3	150.2
5	03.9	03.1	65	51.2	40.0	125	98.3	77.0	185	145.8	113.9	245	193.1	150.8
6	04.7	03.7	66	52.0	40.6	126	99.3	77.6	186	146.6	114.5	246	193.9	151.5
7	05.5	04.3	67	52.8	41.2	127	100.1	78.2	187	147.4	115.1	247	194.6	152.1
8	06.3	04.9	68	53.6	41.9	128	100.9	78.8	188	148.1	115.7	248	195.4	152.7
9	07.1	05.5	69	54.4	42.5	129	101.7	79.4	189	148.9	116.4	249	196.2	153.3
10	07.9	06.2	70	55.2	43.1	130	102.4	80.0	190	149.7	117.0	250	197.0	153.9
11	08.7	06.8	71	55.9	43.7	131	103.2	80.7	191	150.5	117.6	251	197.8	154.5
12	09.5	07.4	72	56.7	44.3	132	104.0	81.3	192	151.3	118.2	252	198.6	155.1
13	10.2	08.0	73	57.5	44.9	133	104.8	81.9	193	152.1	118.8	253	199.4	155.8
14	11.0	08.6	74	58.3	45.6	134	105.6	82.5	194	152.9	119.4	254	200.2	156.4
15	11.8	09.2	75	59.1	46.2	135	106.4	83.1	195	153.7	120.1	255	200.9	157.0
16	12.6	09.9	76	59.9	46.8	136	107.2	83.7	196	154.5	120.7	256	201.7	157.6
17	13.4	10.5	77	60.7	47.4	137	108.0	84.3	197	155.2	121.3	257	202.5	158.2
18	14.2	11.1	78	61.5	48.0	138	108.7	85.0	198	156.0	121.9	258	203.3	158.8
19	15.0	11.7	79	62.3	48.6	139	109.5	85.6	199	156.8	122.5	259	204.1	159.5
20	15.8	12.3	80	63.0	49.3	140	110.3	86.2	200	157.6	123.1	260	204.9	160.1
21	16.5	12.9	81	63.8	49.9	141	111.1	86.8	201	158.4	123.7	261	205.7	160.7
22	17.3	13.5	82	64.6	50.5	142	111.9	87.4	202	159.2	124.2	262	206.5	161.3
23	18.1	14.2	83	65.4	51.1	143	112.7	88.0	203	160.0	125.0	263	207.2	161.9
24	18.9	14.8	84	66.2	51.7	144	113.5	88.7	204	160.8	125.6	264	208.0	162.5
25	19.7	15.4	85	67.0	52.3	145	114.3	89.3	205	161.5	126.2	265	208.8	163.2
26	20.5	16.0	86	67.8	52.9	146	115.0	89.9	206	162.3	126.8	266	209.6	163.8
27	21.3	16.6	87	68.6	53.6	147	115.8	90.5	207	163.1	127.4	267	210.4	164.4
28	22.1	17.2	88	69.3	54.2	148	116.6	91.1	208	163.9	128.1	268	211.2	165.0
29	22.9	17.8	89	70.1	54.8	149	117.4	91.7	209	164.7	128.7	269	212.0	165.6
30	23.6	18.5	90	70.9	55.4	150	118.2	92.3	210	165.5	129.3	270	212.8	166.2
31	24.4	19.1	91	71.7	56.0	151	119.0	93.0	211	166.3	129.9	271	213.6	166.8
32	25.2	19.7	92	72.5	56.6	152	119.8	93.6	212	167.1	130.5	272	214.3	167.5
33	26.0	20.3	93	73.3	57.3	153	120.6	94.2	213	167.8	131.1	273	215.1	168.1
34	26.8	20.9	94	74.1	57.9	154	121.4	94.8	214	168.6	131.8	274	215.9	168.7
35	27.6	21.5	95	74.9	58.5	155	122.1	95.4	215	169.4	132.4	275	216.7	169.3
36	28.4	22.2	96	75.6	59.1	156	122.9	96.0	216	170.2	133.0	276	217.5	169.9
37	29.2	22.8	97	76.4	59.7	157	123.7	96.7	217	171.0	133.6	277	218.3	170.5
38	29.9	23.4	98	77.2	60.3	158	124.5	97.3	218	171.8	134.2	278	219.1	171.2
39	30.7	24.0	99	78.0	61.0	159	125.3	97.9	219	172.6	134.8	279	219.9	171.8
40	31.5	24.6	100	78.8	61.6	160	126.1	98.5	220	173.4	135.4	280	220.6	172.4
41	32.3	25.2	101	79.6	62.2	161	126.9	99.1	221	174.2	136.1	281	221.4	173.0
42	33.1	25.9	102	80.4	62.8	162	127.7	99.7	222	174.9	136.7	282	222.2	173.6
43	33.9	26.5	103	81.2	63.4	163	128.4	100.4	223	175.7	137.3	283	223.0	174.2
44	34.7	27.1	104	82.0	64.0	164	129.2	101.0	224	176.5	137.9	284	223.8	174.8
45	35.5	27.7	105	82.7	64.6	165	130.0	101.6	225	177.3	138.5	285	224.6	175.5
46	36.2	28.3	106	83.5	65.3	166	130.8	102.2	226	178.1	139.1	286	225.4	176.1
47	37.0	28.9	107	84.3	65.9	167	131.6	102.8	227	178.9	139.8	287	226.2	176.7
48	37.8	29.6	108	85.1	66.5	168	132.4	103.4	228	179.7	140.4	288	226.9	177.3
49	38.6	30.2	109	85.9	67.1	169	133.2	104.0	229	180.5	141.0	289	227.7	177.9
50	39.4	30.8	110	86.7	67.7	170	134.0	104.7	230	181.2	141.6	290	228.5	178.5
51	40.2	31.4	111	87.5	68.3	171	134.7	105.3	231	182.0	142.2	291	229.3	179.2
52	41.0	32.0	112	88.3	69.0	172	135.5	105.9	232	182.8	142.8	292	230.1	179.8
53	41.8	32.6	113	89.0	69.6	173	136.3	106.5	233	183.6	143.4	293	230.9	180.4
54	42.6	33.2	114	89.8	70.2	174	137.1	107.1	234	184.4	144.1	294	231.7	181.0
55	43.3	33.9	115	90.6	70.8	175	137.9	107.7	235	185.2	144.7	295	232.5	181.6
56	44.1	34.5	116	91.4	71.4	176	138.7	108.4	236	186.0	145.3	296	233.3	182.2
57	44.9	35.1	117	92.2	72.0	177	139.5	109.0	237	186.8	145.9	297	234.0	182.9
58	45.7	35.7	118	93.0	72.6	178	140.3	109.6	238	187.5	146.5	298	234.8	183.5
59	46.5	36.3	119	93.8	73.3	179	141.1	110.2	239	188.3	147.1	299	235.6	184.1
60	47.3	36.9	120	94.6	73.9	180	141.8	110.8	240	189.1	147.8	300	236.4	184.7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 3°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00 8	00 6	61	47 4	38 4	121	94 0	70 1	181	140 7	113 9	241	187 3	151 7
2	01 6	01 3	62	48 2	39 0	122	94 8	70 8	182	141 4	114 5	242	188 1	152 3
3	02 3	01 9	63	49 0	39 6	123	95 6	71 4	183	142 2	115 2	243	188 8	152 9
4	03 1	02 5	64	49 7	40 3	124	96 4	72 0	184	143 0	115 8	244	189 6	153 6
5	03 9	03 1	65	50 5	40 9	125	97 1	72 7	185	143 8	116 4	245	190 4	154 2
6	04 7	03 8	66	51 3	41 5	126	97 9	73 3	186	144 5	117 1	246	191 2	154 8
7	05 4	04 4	67	52 1	42 2	127	98 7	73 9	187	145 3	117 7	247	192 0	155 4
8	06 2	05 0	68	52 8	42 8	128	99 5	74 6	188	146 1	118 3	248	192 7	156 1
9	07 0	05 7	69	53 6	43 4	129	100 3	75 2	189	146 9	118 9	249	193 5	156 7
10	07 8	06 3	70	54 4	44 1	130	101 0	75 9	190	147 7	119 6	250	194 3	157 3
11	08 5	06 9	71	55 2	44 7	131	101 8	76 4	191	148 4	120 2	251	195 1	158 0
12	09 3	07 6	72	56 0	45 3	132	102 6	77 1	192	149 2	120 8	252	195 8	158 6
13	10 1	08 2	73	56 7	45 9	133	103 4	77 7	193	150 0	121 5	253	196 6	159 2
14	10 9	08 8	74	57 5	46 6	134	104 1	78 4	194	150 8	122 1	254	197 4	159 8
15	11 7	09 4	75	58 3	47 2	135	104 9	79 0	195	151 5	122 7	255	198 2	160 5
16	12 4	10 1	76	59 1	47 8	136	105 7	79 6	196	152 3	123 3	256	198 9	161 1
17	13 2	10 7	77	59 8	48 5	137	106 5	80 2	197	153 1	124 0	257	199 7	161 7
18	14 0	11 3	78	60 6	49 1	138	107 2	80 8	198	153 9	124 6	258	200 5	162 4
19	14 8	12 0	79	61 4	49 7	139	108 0	81 5	199	154 7	125 2	259	201 3	163 0
20	15 5	12 6	80	62 2	50 3	140	108 8	82 1	200	155 4	125 9	260	202 1	163 6
21	16 3	13 2	81	62 9	51 0	141	109 6	82 7	201	156 2	126 5	261	202 8	164 3
22	17 1	13 8	82	63 7	51 6	142	110 4	83 4	202	157 0	127 1	262	203 6	164 9
23	17 9	14 5	83	64 5	52 2	143	111 1	84 0	203	157 8	127 8	263	204 4	165 5
24	18 7	15 1	84	65 3	52 9	144	111 9	84 6	204	158 5	128 4	264	205 2	166 1
25	19 4	15 7	85	66 1	53 5	145	112 7	85 3	205	159 3	129 0	265	205 9	166 8
26	20 2	16 1	86	66 8	54 1	146	113 5	85 9	206	160 1	129 6	266	206 7	167 4
27	21 0	17 0	87	67 6	54 8	147	114 2	86 5	207	160 9	130 3	267	207 5	168 0
28	21 8	17 6	88	68 4	55 4	148	115 0	87 1	208	161 6	130 9	268	208 3	168 7
29	22 5	18 3	89	69 2	56 0	149	115 8	87 8	209	162 4	131 5	269	209 1	169 3
30	23 3	18 9	90	69 9	56 6	150	116 6	88 4	210	163 2	132 2	270	209 8	169 9
31	24 1	19 5	91	70 7	57 3	151	117 3	89 0	211	164 0	132 8	271	210 6	170 5
32	24 9	20 1	92	71 5	57 9	152	118 1	89 7	212	164 8	133 4	272	211 4	171 2
33	25 6	20 8	93	72 3	58 5	153	118 9	90 3	213	165 5	134 0	273	212 2	171 8
34	26 4	21 4	94	73 1	59 2	154	119 7	90 9	214	166 3	134 7	274	212 9	172 4
35	27 2	22 0	95	73 8	59 8	155	120 5	91 5	215	167 1	135 3	275	213 7	173 1
36	28 0	22 7	96	74 6	60 4	156	121 2	92 2	216	167 9	135 9	276	214 5	173 7
37	28 8	23 3	97	75 4	61 0	157	122 0	92 8	217	168 6	136 6	277	215 3	174 3
38	29 5	23 9	98	76 2	61 7	158	122 8	93 4	218	169 4	137 2	278	216 0	175 0
39	30 3	24 5	99	76 9	62 3	159	123 6	94 0	219	170 2	137 8	279	216 8	175 6
40	31 1	25 2	100	77 7	62 9	160	124 3	94 7	220	171 0	138 5	280	217 6	176 2
41	31 9	25 8	101	78 5	63 6	161	125 1	95 3	221	171 7	139 1	281	218 4	176 8
42	32 6	26 4	102	79 3	64 2	162	125 9	95 9	222	172 5	139 7	282	219 2	177 5
43	33 4	27 1	103	80 0	64 8	163	126 7	96 6	223	173 3	140 3	283	219 9	178 1
44	34 1	27 7	104	80 8	65 4	164	127 5	97 2	224	174 1	141 0	284	220 7	178 7
45	35 0	28 3	105	81 6	66 1	165	128 2	97 8	225	174 9	141 6	285	221 5	179 4
46	35 7	28 9	106	82 4	66 7	166	129 0	98 5	226	175 6	142 2	286	222 3	180 0
47	36 5	29 6	107	83 2	67 3	167	129 8	99 1	227	176 4	142 9	287	223 0	180 6
48	37 3	30 2	108	83 9	68 0	168	130 6	100 7	228	177 2	143 5	288	223 8	181 2
49	38 1	30 8	109	84 7	68 6	169	131 3	101 4	229	178 0	144 1	289	224 6	181 9
50	38 9	31 5	110	85 5	69 2	170	132 1	102 0	230	178 7	144 7	290	225 4	182 5
51	39 6	32 1	111	86 3	69 9	171	132 9	102 6	231	179 5	145 4	291	226 1	183 1
52	40 4	32 7	112	87 0	70 5	172	133 7	103 2	232	180 3	146 0	292	226 9	183 8
53	41 2	33 4	113	87 8	71 1	173	134 4	103 9	233	181 1	146 6	293	227 7	184 4
54	42 0	34 0	114	88 6	71 7	174	135 2	104 5	234	181 9	147 3	294	228 5	185 0
55	42 7	34 6	115	89 4	72 4	175	136 0	105 1	235	182 6	147 9	295	229 3	185 6
56	43 5	35 2	116	90 1	73 0	176	136 8	105 8	236	183 4	148 5	296	230 0	186 3
57	44 3	35 9	117	90 9	73 6	177	137 6	106 4	237	184 2	149 1	297	230 8	186 9
58	45 1	36 5	118	91 7	74 3	178	138 3	107 0	238	185 0	149 8	298	231 6	187 5
59	45 9	37 1	119	92 5	74 9	179	139 1	107 6	239	185 7	150 4	299	232 4	188 2
60	46 6	37 8	120	93 3	75 5	180	139 9	108 2	240	186 5	151 0	300	233 1	188 8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

51°.

DIFFERENCE OF LATITUDE AND DEPARTURE.

399

For 40°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00-8	00-6	61	46-7	39-2	121	92-7	77-8	181	138-7	116-3	241	184-6	154-0			
2	01-5	01-3	62	47-5	39-9	122	93-5	78-4	182	139-4	117-0	242	185-4	155-6			
3	02-3	01-9	63	48-3	40-5	123	94-2	79-1	183	140-2	117-6	243	186-1	156-2			
4	03-1	02-6	64	49-0	41-1	124	95-0	79-7	184	141-0	118-3	244	186-9	156-8			
5	03-8	03-2	65	49-8	41-8	125	95-8	80-3	185	141-7	118-9	245	187-7	157-5			
6	04-6	03-9	66	50-6	42-4	126	96-5	81-0	186	142-5	119-6	246	188-4	158-1			
7	05-4	04-5	67	51-3	43-1	127	97-3	81-6	187	143-3	120-2	247	189-2	158-8			
8	06-1	05-1	68	52-1	43-7	128	98-1	82-3	188	144-0	120-8	248	190-0	159-4			
9	06-9	05-8	69	52-9	44-4	129	98-8	82-9	189	144-8	121-5	249	190-7	160-1			
10	07-7	06-4	70	53-6	45-0	130	99-6	83-6	190	145-5	122-1	250	191-5	160-7			
11	08-4	07-1	71	54-4	45-6	131	100-4	84-2	191	146-3	122-8	251	192-3	161-3			
12	09-2	07-7	72	55-2	46-3	132	101-1	84-8	192	147-1	123-4	252	193-0	162-0			
13	10-0	08-4	73	55-9	46-9	133	101-9	85-5	193	147-8	124-1	253	193-8	162-6			
14	10-7	09-0	74	56-7	47-6	134	102-6	86-1	194	148-6	124-7	254	194-6	163-3			
15	11-5	09-6	75	57-5	48-2	135	103-4	86-8	195	149-4	125-3	255	195-3	163-9			
16	12-3	10-3	76	58-2	48-9	136	104-2	87-4	196	150-1	126-0	256	196-1	164-6			
17	13-0	10-9	77	59-0	49-5	137	104-9	88-1	197	150-9	126-6	257	196-9	165-2			
18	13-8	11-6	78	59-8	50-1	138	105-7	88-7	198	151-7	127-3	258	197-6	165-8			
19	14-6	12-2	79	60-5	50-8	139	106-5	89-3	199	152-4	127-9	259	198-4	166-5			
20	15-3	12-9	80	61-3	51-4	140	107-2	90-0	200	153-2	128-6	260	199-2	167-1			
21	16-1	13-5	81	62-0	52-1	141	108-0	90-6	201	154-0	129-2	261	199-9	167-8			
22	16-9	14-1	82	62-8	52-7	142	108-8	91-3	202	154-7	129-8	262	200-7	168-4			
23	17-6	14-8	83	63-6	53-4	143	109-5	91-9	203	155-5	130-5	263	201-5	169-1			
24	18-4	15-4	84	64-3	54-0	144	110-3	92-6	204	156-3	131-1	264	202-2	169-7			
25	19-2	16-1	85	65-1	54-6	145	111-1	93-2	205	157-0	131-8	265	203-0	170-3			
26	19-9	16-7	86	65-9	55-3	146	111-8	93-8	206	157-8	132-4	266	203-8	171-0			
27	20-7	17-4	87	66-7	55-9	147	112-6	94-5	207	158-6	133-1	267	204-5	171-6			
28	21-4	18-0	88	67-4	56-6	148	113-4	95-1	208	159-3	133-7	268	205-3	172-3			
29	22-2	18-6	89	68-2	57-2	149	114-1	95-8	209	160-1	134-3	269	206-1	172-9			
30	23-0	19-3	90	68-9	57-9	150	114-9	96-4	210	160-9	135-0	270	206-8	173-6			
31	23-7	19-9	91	69-7	58-5	151	115-7	97-1	211	161-6	135-6	271	207-6	174-2			
32	24-5	20-6	92	70-5	59-1	152	116-4	97-7	212	162-4	136-3	272	208-4	174-8			
33	25-3	21-2	93	71-2	59-8	153	117-2	98-3	213	163-2	136-9	273	209-2	175-5			
34	26-0	21-9	94	72-0	60-4	154	118-0	99-0	214	163-9	137-6	274	209-9	176-1			
35	26-8	22-5	95	72-8	61-1	155	118-7	99-6	215	164-7	138-2	275	210-7	176-8			
36	27-6	23-1	96	73-5	61-7	156	119-5	100-3	216	165-5	138-8	276	211-4	177-4			
37	28-3	23-8	97	74-3	62-4	157	120-3	100-9	217	166-2	139-5	277	212-2	178-1			
38	29-1	24-4	98	75-1	63-0	158	121-0	101-6	218	167-0	140-1	278	213-0	178-7			
39	29-9	25-1	99	75-8	63-6	159	121-8	102-2	219	167-8	140-8	279	213-7	179-3			
40	30-6	25-7	100	76-6	64-3	160	122-6	102-8	220	168-5	141-4	280	214-5	180-0			
41	31-4	26-4	101	77-4	64-9	161	123-3	103-5	221	169-3	142-1	281	215-3	180-6			
42	32-2	27-0	102	78-1	65-6	162	124-1	104-1	222	170-1	142-7	282	216-0	181-3			
43	32-9	27-6	103	78-9	66-2	163	124-9	104-8	223	170-8	143-3	283	216-8	181-9			
44	33-7	28-3	104	79-7	66-8	164	125-6	105-4	224	171-6	144-0	284	217-6	182-6			
45	34-5	28-9	105	80-4	67-5	165	126-4	106-1	225	172-4	144-6	285	218-3	183-2			
46	35-2	29-6	106	81-2	68-1	166	127-2	106-7	226	173-1	145-3	286	219-1	183-8			
47	36-0	30-2	107	82-0	68-8	167	127-9	107-3	227	173-9	145-9	287	219-9	184-5			
48	36-8	30-9	108	82-7	69-4	168	128-7	108-0	228	174-7	146-6	288	220-6	185-1			
49	37-5	31-5	109	83-5	70-1	169	129-5	108-6	229	175-4	147-2	289	221-4	185-8			
50	38-3	32-1	110	84-3	70-7	170	130-2	109-3	230	176-2	147-8	290	222-2	186-4			
51	39-1	32-8	111	85-0	71-3	171	131-0	109-9	231	177-0	148-5	291	223-0	187-1			
52	39-8	33-4	112	85-8	72-0	172	131-8	110-6	232	177-7	149-1	292	223-7	187-7			
53	40-6	34-1	113	86-6	72-6	173	132-5	111-2	233	178-5	149-8	293	224-5	188-3			
54	41-4	34-7	114	87-2	73-3	174	133-3	111-8	234	179-3	150-4	294	225-3	189-0			
55	42-1	35-4	115	88-1	73-9	175	134-1	112-5	235	180-0	151-1	295	226-0	189-6			
56	42-9	36-0	116	88-9	74-6	176	134-8	113-1	236	180-8	151-7	296	226-7	190-3			
57	43-7	36-6	117	89-6	75-2	177	135-6	113-8	237	181-6	152-3	297	227-5	190-9			
58	44-4	37-3	118	90-4	75-8	178	136-4	114-4	238	182-3	153-0	298	228-3	191-6			
59	45-2	37-9	119	91-2	76-5	179	137-1	115-1	239	183-1	153-6	299	229-0	192-2			
60	46-0	38-6	120	91-9	77-1	180	137-9	115-7	240	183-9	154-3	300	229-8	192-8			
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 41°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.8	00.7	61	46.0	40.0	121	01.3	79.4	181	136.6	118.7	241	181.9	158.1
2	01.5	01.3	62	46.8	40.7	122	02.1	80.0	182	137.4	119.4	242	182.6	158.8
3	02.3	02.0	63	47.5	41.3	123	02.8	80.7	183	138.1	120.1	243	183.4	159.4
4	03.0	02.6	64	48.3	42.0	124	03.6	81.4	184	138.9	120.7	244	184.1	160.1
5	03.8	03.3	65	49.1	42.6	125	04.3	82.0	185	139.6	121.4	245	184.9	160.7
6	04.5	03.9	66	49.8	43.3	126	05.1	82.7	186	140.4	122.0	246	185.7	161.4
7	05.3	04.6	67	50.6	44.0	127	05.8	83.3	187	141.1	122.7	247	186.4	162.0
8	06.0	05.2	68	51.3	44.6	128	06.6	84.0	188	141.9	123.3	248	187.2	162.7
9	06.8	05.9	69	52.1	45.3	129	07.4	84.6	189	142.6	124.0	249	187.9	163.4
10	07.5	06.6	70	52.8	45.9	130	08.1	85.3	190	143.4	124.7	250	188.7	164.0
11	08.3	07.2	71	53.6	46.6	131	08.9	85.9	191	144.1	125.3	251	189.4	164.7
12	09.1	07.9	72	54.3	47.2	132	09.6	86.6	192	144.9	126.0	252	190.2	165.3
13	09.8	08.5	73	55.1	47.9	133	10.4	87.2	193	145.7	126.6	253	190.9	166.0
14	10.6	09.2	74	55.8	48.5	134	10.1	87.9	194	146.4	127.3	254	191.7	166.6
15	11.3	09.8	75	56.6	49.2	135	10.9	88.6	195	147.2	127.9	255	192.5	167.3
16	12.1	10.5	76	57.4	49.9	136	10.2	89.2	196	147.9	128.6	256	193.2	168.0
17	12.8	11.2	77	58.1	50.5	137	10.3	89.9	197	148.7	129.2	257	194.0	168.6
18	13.6	11.8	78	58.9	51.2	138	10.4	90.5	198	149.4	129.9	258	194.7	169.3
19	14.3	12.5	79	59.6	51.8	139	10.9	91.2	199	150.2	130.6	259	195.5	169.9
20	15.1	13.1	80	60.4	52.5	140	10.5	91.8	200	150.9	131.2	260	196.2	170.6
21	15.8	13.8	81	61.1	53.1	141	10.6	92.5	201	151.7	131.9	261	197.0	171.2
22	16.6	14.4	82	61.9	53.8	142	10.7	93.2	202	152.5	132.5	262	197.7	171.9
23	17.4	15.1	83	62.6	54.5	143	10.9	93.8	203	153.2	133.2	263	198.5	172.5
24	18.1	15.7	84	63.4	55.1	144	10.8	94.5	204	154.0	133.8	264	199.2	173.2
25	18.9	16.4	85	64.2	55.8	145	10.9	95.1	205	154.7	134.5	265	200.0	173.9
26	19.6	17.1	86	64.9	56.4	146	11.0	95.8	206	155.5	135.1	266	200.8	174.5
27	20.4	17.7	87	65.7	57.1	147	11.0	96.4	207	156.2	135.8	267	201.5	175.2
28	21.1	18.4	88	66.4	57.7	148	11.1	97.1	208	157.0	136.5	268	202.3	175.8
29	21.9	19.0	89	67.2	58.4	149	11.2	97.8	209	157.7	137.1	269	203.0	176.5
30	22.6	19.7	90	67.9	59.0	150	11.3	98.4	210	158.5	137.8	270	203.8	177.1
31	23.4	20.3	91	68.7	59.7	151	11.4	99.1	211	159.2	138.4	271	204.5	177.8
32	24.2	21.0	92	69.4	60.4	152	11.4	99.7	212	160.0	139.1	272	205.3	178.4
33	24.9	21.6	93	70.2	61.0	153	11.5	100.4	213	160.8	139.7	273	206.0	179.1
34	25.7	22.3	94	70.9	61.7	154	11.6	101.0	214	161.5	140.4	274	206.8	179.8
35	26.4	23.0	95	71.7	62.3	155	11.7	101.7	215	162.3	141.1	275	207.5	180.4
36	27.2	23.6	96	72.5	63.0	156	11.7	102.3	216	163.0	141.7	276	208.3	181.1
37	27.9	24.3	97	73.2	63.6	157	11.8	103.0	217	163.8	142.4	277	209.1	181.7
38	28.7	24.9	98	74.0	64.3	158	11.9	103.7	218	164.5	143.0	278	209.8	182.4
39	29.4	25.6	99	74.7	64.9	159	12.0	104.3	219	165.3	143.7	279	210.6	183.0
40	30.2	26.2	100	75.5	65.6	160	12.0	105.0	220	166.0	144.3	280	211.3	183.7
41	30.9	26.9	101	76.2	66.3	161	12.1	105.6	221	166.8	145.0	281	212.1	184.4
42	31.7	27.6	102	77.0	66.9	162	12.2	106.3	222	167.5	145.6	282	212.8	185.0
43	32.5	28.2	103	77.7	67.6	163	12.3	106.9	223	168.3	146.3	283	213.6	185.7
44	33.2	28.9	104	78.5	68.2	164	12.3	107.6	224	169.1	147.0	284	214.3	186.3
45	34.0	29.5	105	79.2	68.9	165	12.4	108.2	225	169.8	147.6	285	215.1	187.0
46	34.7	30.2	106	80.0	69.5	166	12.5	108.9	226	170.6	148.3	286	215.8	187.6
47	35.5	30.8	107	80.8	70.2	167	12.6	109.6	227	171.3	148.9	287	216.6	188.3
48	36.2	31.5	108	81.5	70.9	168	12.6	110.2	228	172.1	149.6	288	217.4	188.9
49	37.0	32.1	109	82.3	71.5	169	12.7	110.9	229	172.8	150.2	289	218.1	189.6
50	37.7	32.8	110	83.0	72.2	170	12.8	111.5	230	173.6	150.9	290	218.9	190.3
51	38.5	33.5	111	83.8	72.8	171	12.9	112.2	231	174.3	151.5	291	219.6	190.9
52	39.2	34.1	112	84.5	73.5	172	12.9	112.8	232	175.1	152.2	292	220.4	191.6
53	40.0	34.8	113	85.3	74.1	173	13.0	113.5	233	175.8	152.9	293	221.1	192.2
54	40.8	35.4	114	86.0	74.8	174	13.1	114.2	234	176.6	153.5	294	221.9	192.9
55	41.5	36.1	115	86.8	75.4	175	13.2	114.8	235	177.4	154.2	295	222.6	193.5
56	42.3	36.7	116	87.5	76.1	176	13.2	115.5	236	178.1	154.8	296	223.4	194.2
57	43.0	37.4	117	88.3	76.8	177	13.3	116.1	237	178.9	155.5	297	224.1	194.8
58	43.8	38.1	118	89.1	77.4	178	13.4	116.8	238	179.6	156.1	298	224.9	195.5
59	44.5	38.7	119	89.8	78.1	179	13.5	117.4	239	180.4	156.8	299	225.7	196.2
60	45.3	39.4	120	90.6	78.7	180	13.5	118.1	240	181.1	157.5	300	226.4	196.8
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 42°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.7	00.7	61	43.3	40.8	121	80.9	81.0	181	134.5	121.1	241	179.1	161.3
2	01.5	01.3	62	46.1	41.5	122	80.7	81.6	182	135.3	121.8	242	179.8	161.9
3	02.2	02.0	63	48.8	42.2	123	81.4	82.3	183	136.0	122.5	243	180.6	162.6
4	03.0	02.7	64	47.6	42.8	124	82.1	83.0	184	136.7	123.1	244	181.3	163.3
5	03.7	03.3	65	48.3	43.5	125	82.9	83.6	185	137.5	123.8	245	182.1	163.9
6	04.5	04.0	66	49.0	44.2	126	83.6	84.3	186	138.2	124.5	246	182.8	164.6
7	05.2	04.7	67	49.8	44.8	127	84.4	85.0	187	139.0	125.1	247	183.6	165.3
8	05.9	05.4	68	50.5	45.5	128	85.1	85.6	188	139.7	125.8	248	184.3	165.9
9	06.7	06.0	69	51.3	46.2	129	85.9	86.3	189	140.5	126.5	249	185.0	166.6
10	07.4	06.7	70	52.0	46.8	130	86.6	87.0	190	141.2	127.1	250	185.8	167.3
11	08.2	07.4	71	52.8	47.5	131	87.4	87.7	191	141.9	127.8	251	186.5	168.0
12	08.9	08.0	72	53.5	48.2	132	88.1	88.3	192	142.7	128.5	252	187.3	168.6
13	09.7	08.7	73	54.2	48.8	133	88.8	89.0	193	143.4	129.1	253	188.0	169.3
14	10.4	09.4	74	55.0	49.5	134	89.6	89.7	194	144.2	129.8	254	188.8	170.0
15	11.1	10.0	75	55.7	50.2	135	90.3	90.3	195	144.9	130.5	255	189.5	170.6
16	11.9	10.7	76	56.5	50.9	136	91.1	91.0	196	145.7	131.1	256	190.2	171.3
17	12.6	11.4	77	57.2	51.5	137	91.8	91.7	197	146.4	131.8	257	191.0	172.0
18	13.4	12.0	78	58.0	52.2	138	92.6	92.3	198	147.1	132.5	258	191.7	172.6
19	14.1	12.7	79	58.7	52.9	139	93.3	93.0	199	147.9	133.2	259	192.5	173.3
20	14.9	13.4	80	59.5	53.5	140	94.0	93.7	200	148.6	133.8	260	193.2	174.0
21	15.6	14.1	81	60.2	54.2	141	94.8	94.3	201	149.4	134.5	261	194.0	174.6
22	16.3	14.7	82	60.9	54.9	142	95.5	95.0	202	150.1	135.2	262	194.7	175.3
23	17.1	15.4	83	61.7	55.5	143	96.3	95.7	203	150.9	135.8	263	195.4	176.0
24	17.8	16.1	84	62.4	56.2	144	97.0	96.4	204	151.6	136.5	264	196.2	176.7
25	18.6	16.7	85	63.2	56.9	145	97.8	97.0	205	152.3	137.2	265	196.9	177.3
26	19.3	17.4	86	63.9	57.5	146	98.5	97.7	206	153.1	137.8	266	197.7	178.0
27	20.1	18.1	87	64.7	58.2	147	99.2	98.4	207	153.8	138.5	267	198.4	178.7
28	20.8	18.7	88	65.4	58.9	148	100.0	99.0	208	154.6	139.2	268	199.2	179.3
29	21.6	19.4	89	66.1	59.6	149	110.7	99.7	209	155.3	139.8	269	199.9	180.0
30	22.3	20.1	90	66.9	60.2	150	111.5	100.4	210	156.1	140.5	270	200.6	180.7
31	23.0	20.7	91	67.6	60.9	151	112.2	101.0	211	156.8	141.2	271	201.4	181.3
32	23.8	21.4	92	68.4	61.6	152	113.0	101.7	212	157.5	141.9	272	202.1	182.0
33	24.5	22.1	93	69.1	62.2	153	113.7	102.4	213	158.3	142.5	273	202.9	182.7
34	25.3	22.8	94	69.9	62.9	154	114.4	103.0	214	159.0	143.2	274	203.6	183.3
35	26.0	23.4	95	70.6	63.6	155	115.2	103.7	215	159.8	143.9	275	204.4	184.0
36	26.8	24.1	96	71.3	64.2	156	115.9	104.4	216	160.5	144.5	276	205.1	184.7
37	27.5	24.8	97	72.1	64.9	157	116.7	105.1	217	161.3	145.2	277	205.9	185.3
38	28.2	25.4	98	72.8	65.6	158	117.4	105.7	218	162.0	145.9	278	206.6	186.0
39	29.0	26.1	99	73.6	66.2	159	118.2	106.4	219	162.7	146.5	279	207.3	186.7
40	29.7	26.8	100	74.3	66.9	160	118.9	107.1	220	163.5	147.2	280	208.1	187.4
41	30.5	27.4	101	75.1	67.6	161	119.6	107.7	221	164.2	147.9	281	208.8	188.0
42	31.2	28.1	102	75.8	68.3	162	120.4	108.4	222	165.0	148.5	282	209.6	188.7
43	32.0	28.8	103	76.5	68.9	163	121.1	109.1	223	165.7	149.2	283	210.3	189.4
44	32.7	29.4	104	77.3	69.6	164	121.9	109.7	224	166.5	149.9	284	211.1	190.0
45	33.4	30.1	105	78.0	70.3	165	122.6	110.4	225	167.2	150.6	285	211.8	190.7
46	34.2	30.8	106	78.8	70.9	166	123.4	111.1	226	168.0	151.2	286	212.5	191.4
47	34.9	31.4	107	79.5	71.6	167	124.1	111.7	227	168.7	151.9	287	213.3	192.0
48	35.7	32.1	108	80.3	72.3	168	124.8	112.4	228	169.4	152.6	288	214.0	192.7
49	36.4	32.8	109	81.0	72.9	169	125.6	113.1	229	170.2	153.2	289	214.8	193.4
50	37.2	33.5	110	81.7	73.6	170	126.3	113.8	230	170.9	153.9	290	215.5	194.0
51	37.9	34.1	111	82.5	74.3	171	127.1	114.4	231	171.7	154.6	291	216.3	194.7
52	38.6	34.8	112	83.2	74.9	172	127.8	115.1	232	172.4	155.2	292	217.0	195.4
53	39.4	35.5	113	84.0	75.6	173	128.6	115.8	233	173.2	155.9	293	217.7	196.1
54	40.1	36.1	114	84.7	76.3	174	129.3	116.4	234	173.9	156.6	294	218.5	196.7
55	40.9	36.8	115	85.5	77.0	175	130.1	117.1	235	174.6	157.2	295	219.2	197.4
56	41.6	37.5	116	86.2	77.6	176	130.8	117.8	236	175.4	157.9	296	220.0	198.1
57	42.4	38.1	117	86.9	78.3	177	131.5	118.4	237	176.1	158.6	297	220.7	198.7
58	43.1	38.8	118	87.7	79.0	178	132.3	119.1	238	176.9	159.3	298	221.5	199.4
59	43.8	39.5	119	88.4	79.6	179	133.0	119.8	239	177.6	159.9	299	222.2	200.1
60	44.6	40.1	120	89.2	80.3	180	133.8	120.4	240	178.4	160.6	300	222.9	200.7
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.7	00.7	61	44.6	41.6	121	88.5	82.5	181	132.4	123.4	241	170.3	164.4			
2	01.5	01.1	62	45.3	42.3	122	89.2	83.2	182	133.1	124.1	242	171.0	165.9			
3	02.2	02.0	63	46.1	43.0	123	90.0	83.9	183	133.8	124.8	243	171.7	167.7			
4	02.9	02.7	64	46.8	43.6	124	90.7	84.6	184	134.6	125.5	244	172.5	168.4			
5	03.7	03.4	65	47.5	44.3	125	91.4	85.2	185	135.3	126.2	245	173.2	169.1			
6	04.4	04.1	66	48.3	45.0	126	92.2	85.9	186	136.0	126.9	246	173.9	170.8			
7	05.1	04.8	67	49.0	45.7	127	92.9	86.6	187	136.8	127.5	247	174.6	171.5			
8	05.9	05.5	68	49.7	46.4	128	93.6	87.3	188	137.5	128.2	248	175.3	172.2			
9	06.6	06.1	69	50.5	47.1	129	94.3	88.0	189	138.2	128.9	249	176.0	172.9			
10	07.3	06.8	70	51.2	47.7	130	95.1	88.7	190	139.0	129.6	250	176.7	173.6			
11	08.0	07.5	71	51.9	48.4	131	95.8	89.3	191	139.7	130.3	251	177.4	174.3			
12	08.8	08.2	72	52.7	49.1	132	96.5	90.0	192	140.4	130.9	252	178.1	175.0			
13	09.5	08.9	73	53.4	49.8	133	97.3	90.7	193	141.2	131.6	253	178.8	175.7			
14	10.2	09.5	74	54.1	50.5	134	98.0	91.4	194	141.9	132.3	254	179.5	176.4			
15	11.0	10.2	75	54.9	51.1	135	98.7	92.1	195	142.6	133.0	255	180.2	177.1			
16	11.7	10.9	76	55.6	51.8	136	99.5	92.8	196	143.3	133.7	256	180.9	177.8			
17	12.4	11.6	77	56.3	52.5	137	100.2	93.4	197	144.1	134.4	257	181.6	178.5			
18	13.2	12.3	78	57.0	53.2	138	100.9	94.1	198	144.8	135.0	258	182.3	179.2			
19	13.9	13.0	79	57.8	53.9	139	101.7	94.8	199	145.5	135.7	259	183.0	179.9			
20	14.6	13.6	80	58.5	54.6	140	102.4	95.5	200	146.3	136.4	260	183.7	180.6			
21	15.4	14.3	81	59.2	55.2	141	103.1	96.2	201	147.0	137.1	261	184.4	181.3			
22	16.1	15.0	82	60.0	55.9	142	103.9	96.8	202	147.7	137.8	262	185.1	182.0			
23	16.8	15.7	83	60.7	56.6	143	104.6	97.5	203	148.5	138.4	263	185.8	182.7			
24	17.6	16.4	84	61.4	57.3	144	105.3	98.2	204	149.2	139.1	264	186.5	183.4			
25	18.3	17.0	85	62.2	58.0	145	106.0	98.9	205	149.9	139.8	265	187.2	184.1			
26	19.0	17.7	86	62.9	58.7	146	106.8	99.6	206	150.7	140.5	266	187.9	184.8			
27	19.7	18.4	87	63.6	59.3	147	107.5	100.3	207	151.4	141.2	267	188.6	185.5			
28	20.5	19.1	88	64.4	60.0	148	108.2	100.9	208	152.1	141.9	268	189.3	186.2			
29	21.2	19.8	89	65.1	60.7	149	109.0	101.6	209	152.9	142.5	269	190.0	186.9			
30	21.9	20.5	90	65.8	61.4	150	109.7	102.3	210	153.6	143.2	270	190.7	187.6			
31	22.7	21.1	91	66.6	62.1	151	110.4	103.0	211	154.3	143.9	271	191.4	188.3			
32	23.4	21.8	92	67.3	62.7	152	111.2	103.7	212	155.0	144.6	272	192.1	189.0			
33	24.1	22.5	93	68.0	63.4	153	111.9	104.3	213	155.8	145.3	273	192.8	189.7			
34	24.9	23.2	94	68.7	64.1	154	112.6	105.0	214	156.5	145.9	274	193.5	190.4			
35	25.6	23.9	95	69.5	64.8	155	113.4	105.7	215	157.2	146.6	275	194.2	191.1			
36	26.3	24.6	96	70.2	65.5	156	114.1	106.4	216	158.0	147.3	276	194.9	191.8			
37	27.1	25.2	97	70.9	66.2	157	114.8	107.1	217	158.7	148.0	277	195.6	192.5			
38	27.8	25.9	98	71.7	66.8	158	115.6	107.8	218	159.4	148.7	278	196.3	193.2			
39	28.5	26.6	99	72.4	67.5	159	116.3	108.4	219	160.2	149.4	279	197.0	193.9			
40	29.3	27.3	100	73.1	68.2	160	117.0	109.1	220	160.9	150.0	280	197.7	194.6			
41	30.0	28.0	101	73.9	68.9	161	117.7	109.8	221	161.6	150.7	281	198.4	195.3			
42	30.7	28.6	102	74.6	69.6	162	118.5	110.5	222	162.4	151.4	282	199.1	196.0			
43	31.4	29.3	103	75.3	70.2	163	119.2	111.2	223	163.1	152.1	283	199.8	196.7			
44	32.2	30.0	104	76.1	70.9	164	119.9	111.8	224	163.8	152.8	284	200.5	197.4			
45	32.9	30.7	105	76.8	71.6	165	120.7	112.5	225	164.6	153.4	285	201.2	198.1			
46	33.6	31.4	106	77.5	72.3	166	121.4	113.2	226	165.3	154.1	286	201.9	198.8			
47	34.4	32.1	107	78.3	73.0	167	122.1	113.9	227	166.0	154.8	287	202.6	199.5			
48	35.1	32.7	108	79.0	73.7	168	122.9	114.6	228	166.7	155.5	288	203.3	200.2			
49	35.8	33.4	109	79.7	74.3	169	123.6	115.3	229	167.5	156.2	289	204.0	200.9			
50	36.6	34.1	110	80.4	75.0	170	124.3	115.9	230	168.2	156.9	290	204.7	201.6			
51	37.3	34.8	111	81.2	75.7	171	125.1	116.6	231	168.9	157.5	291	205.4	202.3			
52	38.0	35.5	112	81.9	76.4	172	125.8	117.3	232	169.7	158.2	292	206.1	203.0			
53	38.8	36.1	113	82.6	77.1	173	126.5	118.0	233	170.4	158.9	293	206.8	203.7			
54	39.5	36.8	114	83.4	77.7	174	127.3	118.7	234	171.1	159.6	294	207.5	204.4			
55	40.2	37.5	115	84.1	78.4	175	128.0	119.3	235	171.9	160.3	295	208.2	205.1			
56	41.0	38.2	116	84.8	79.1	176	128.7	120.0	236	172.6	161.0	296	208.9	205.8			
57	41.7	38.9	117	85.6	79.8	177	129.4	120.7	237	173.3	161.7	297	209.6	206.5			
58	42.4	39.6	118	86.3	80.5	178	130.2	121.4	238	174.1	162.4	298	210.3	207.2			
59	43.1	40.2	119	87.0	81.2	179	130.9	122.1	239	174.8	163.1	299	211.0	207.9			
60	43.9	40.9	120	87.8	81.8	180	131.6	122.8	240	175.5	163.8	300	211.7	208.6			
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 44°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00.7	00.7	61	43.9	42.4	121	87.0	81.1	181	130.2	125.7	241	173.4	167.4
2	01.4	01.4	62	44.6	43.1	122	87.8	81.7	182	130.9	126.4	242	174.1	168.1
3	02.2	02.1	63	45.3	43.8	123	88.5	82.5	183	131.6	127.1	243	174.8	168.8
4	02.9	02.8	64	46.0	44.5	124	89.2	83.2	184	132.4	127.8	244	175.5	169.5
5	03.6	03.5	65	46.8	45.2	125	89.9	83.9	185	133.1	128.5	245	176.2	170.2
6	04.3	04.2	66	47.5	45.9	126	90.6	84.5	186	133.8	129.2	246	177.0	170.9
7	05.0	04.9	67	48.2	46.5	127	91.4	85.2	187	134.5	129.9	247	177.7	171.6
8	05.8	05.6	68	48.9	47.2	128	92.1	85.9	188	135.2	130.6	248	178.4	172.3
9	06.5	06.3	69	49.6	47.9	129	92.8	86.6	189	136.0	131.3	249	179.1	173.0
10	07.2	07.0	70	50.4	48.6	130	93.5	87.3	190	136.7	132.0	250	179.8	173.7
11	07.9	07.6	71	51.1	49.3	131	94.2	88.0	191	137.4	132.7	251	180.6	174.4
12	08.6	08.3	72	51.8	50.0	132	95.0	88.7	192	138.1	133.4	252	181.3	175.1
13	09.4	09.0	73	52.5	50.7	133	95.7	89.4	193	138.8	134.1	253	182.0	175.7
14	10.1	09.7	74	53.2	51.4	134	96.4	90.1	194	139.6	134.8	254	182.7	176.4
15	10.8	10.4	75	54.0	52.1	135	97.1	90.8	195	140.3	135.5	255	183.4	177.1
16	11.5	11.1	76	54.7	52.8	136	97.8	91.5	196	141.0	136.2	256	184.2	177.8
17	12.2	11.8	77	55.4	53.5	137	98.5	92.2	197	141.7	136.9	257	184.9	178.5
18	12.9	12.5	78	56.1	54.2	138	99.3	92.9	198	142.4	137.5	258	185.6	179.2
19	13.7	13.2	79	56.8	54.9	139	100.0	93.6	199	143.1	138.2	259	186.3	179.9
20	14.4	13.9	80	57.5	55.6	140	100.7	94.3	200	143.8	138.9	260	187.0	180.6
21	15.1	14.6	81	58.3	56.3	141	101.4	95.0	201	144.6	139.6	261	187.7	181.3
22	15.8	15.3	82	59.0	57.0	142	102.1	95.6	202	145.3	140.3	262	188.5	182.0
23	16.5	16.0	83	59.7	57.7	143	102.9	96.3	203	146.0	141.0	263	189.2	182.7
24	17.3	16.7	84	60.4	58.4	144	103.6	100.0	204	146.7	141.7	264	189.9	183.4
25	18.0	17.4	85	61.1	59.0	145	104.3	100.7	205	147.5	142.4	265	190.6	184.1
26	18.7	18.1	86	61.9	59.7	146	105.0	101.4	206	148.2	143.1	266	191.3	184.8
27	19.4	18.8	87	62.6	60.4	147	105.7	102.1	207	148.9	143.8	267	192.1	185.5
28	20.1	19.5	88	63.3	61.1	148	106.5	102.8	208	149.6	144.5	268	192.8	186.2
29	20.9	20.1	89	64.0	61.8	149	107.2	103.5	209	150.3	145.2	269	193.5	186.9
30	21.6	20.8	90	64.7	62.5	150	107.9	104.2	210	151.1	145.9	270	194.2	187.6
31	22.3	21.5	91	65.5	63.2	151	108.6	104.9	211	151.8	146.6	271	194.9	188.3
32	23.0	22.2	92	66.2	63.9	152	109.3	105.6	212	152.5	147.3	272	195.7	188.9
33	23.7	22.9	93	66.9	64.6	153	110.1	106.3	213	153.2	148.0	273	196.4	189.6
34	24.5	23.6	94	67.6	65.3	154	110.8	107.0	214	153.9	148.7	274	197.1	190.3
35	25.2	24.3	95	68.3	66.0	155	111.5	107.7	215	154.7	149.4	275	197.8	191.0
36	25.9	25.0	96	69.1	66.7	156	112.2	108.4	216	155.4	150.0	276	198.5	191.7
37	26.6	25.7	97	69.8	67.4	157	112.9	109.1	217	156.1	150.7	277	199.3	192.4
38	27.3	26.4	98	70.5	68.1	158	113.7	109.8	218	156.8	151.4	278	200.0	193.1
39	28.1	27.1	99	71.2	68.8	159	114.4	110.5	219	157.5	152.1	279	200.7	193.8
40	28.8	27.8	100	71.9	69.5	160	115.1	111.1	220	158.3	152.8	280	201.4	194.5
41	29.5	28.5	101	72.7	70.2	161	115.8	111.8	221	159.0	153.5	281	202.1	195.2
42	30.2	29.2	102	73.4	70.9	162	116.5	112.5	222	159.7	154.2	282	202.9	195.9
43	30.9	29.9	103	74.1	71.5	163	117.3	113.2	223	160.4	154.9	283	203.6	196.6
44	31.7	30.6	104	74.8	72.2	164	118.0	113.9	224	161.1	155.6	284	204.3	197.3
45	32.4	31.3	105	75.5	72.9	165	118.7	114.6	225	161.9	156.3	285	205.0	198.0
46	33.1	32.0	106	76.3	73.6	166	119.4	115.3	226	162.6	157.0	286	205.7	198.7
47	33.8	32.6	107	77.0	74.3	167	120.1	116.0	227	163.3	157.7	287	206.5	199.4
48	34.5	33.3	108	77.7	75.0	168	120.8	116.7	228	164.0	158.4	288	207.2	200.1
49	35.2	34.0	109	78.4	75.7	169	121.6	117.4	229	164.7	159.1	289	207.9	200.8
50	36.0	34.7	110	79.1	76.4	170	122.3	118.1	230	165.4	159.8	290	208.6	201.5
51	36.7	35.4	111	79.8	77.1	171	123.0	118.8	231	166.2	160.5	291	209.3	202.2
52	37.4	36.1	112	80.6	77.8	172	123.7	119.5	232	166.9	161.2	292	210.0	202.8
53	38.1	36.8	113	81.3	78.5	173	124.4	120.2	233	167.6	161.9	293	210.8	203.5
54	38.8	37.5	114	82.0	79.2	174	125.2	120.9	234	168.3	162.6	294	211.5	204.2
55	39.6	38.2	115	82.7	79.9	175	125.9	121.6	235	169.0	163.3	295	212.2	204.9
56	40.3	38.9	116	83.4	80.6	176	126.6	122.3	236	169.8	163.9	296	212.9	205.6
57	41.0	39.6	117	84.2	81.3	177	127.3	123.0	237	170.5	164.6	297	213.6	206.3
58	41.7	40.3	118	84.9	82.0	178	128.0	123.6	238	171.2	165.3	298	214.4	207.0
59	42.4	41.0	119	85.6	82.7	179	128.8	124.3	239	171.9	166.0	299	215.1	207.7
60	43.2	41.7	120	86.3	83.4	180	129.5	125.0	240	172.6	166.7	300	215.8	208.4
Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.	Dist.	Dep.	Lat.

For 45°.

Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.	Dist.	Lat.	Dep.
1	00°7	00°7	61	43°1	43°1	121	85°6	85°6	181	128°0	128°0	241	170°4	170°4
2	01°4	01°4	62	43°8	43°8	122	86°3	86°3	182	128°7	128°7	242	171°1	171°1
3	02°1	02°1	63	44°5	44°5	123	87°0	87°0	183	129°4	129°4	243	171°8	171°8
4	02°8	02°8	64	45°3	45°3	124	87°7	87°7	184	130°1	130°1	244	172°5	172°5
5	03°5	03°5	65	46°0	46°0	125	88°4	88°4	185	130°8	130°8	245	173°2	173°2
6	04°2	04°2	66	46°7	46°7	126	89°1	89°1	186	131°5	131°5	246	173°9	173°9
7	04°9	04°9	67	47°4	47°4	127	89°8	89°8	187	132°2	132°2	247	174°7	174°7
8	05°7	05°7	68	48°1	48°1	128	90°5	90°5	188	132°9	132°9	248	175°4	175°4
9	06°4	06°4	69	48°8	48°8	129	91°2	91°2	189	133°6	133°6	249	176°1	176°1
10	07°1	07°1	70	49°5	49°5	130	91°9	91°9	190	134°4	134°4	250	176°8	176°8
11	07°8	07°8	71	50°2	50°2	131	92°6	92°6	191	135°1	135°1	251	177°5	177°5
12	08°5	08°5	72	50°9	50°9	132	93°3	93°3	192	135°8	135°8	252	178°2	178°2
13	09°2	09°2	73	51°6	51°6	133	94°0	94°0	193	136°5	136°5	253	178°9	178°9
14	09°9	09°9	74	52°3	52°3	134	94°8	94°8	194	137°2	137°2	254	179°6	179°6
15	10°6	10°6	75	53°0	53°0	135	95°5	95°5	195	137°9	137°9	255	180°3	180°3
16	11°3	11°3	76	53°7	53°7	136	96°2	96°2	196	138°6	138°6	256	181°0	181°0
17	12°0	12°0	77	54°4	54°4	137	96°9	96°9	197	139°3	139°3	257	181°7	181°7
18	12°7	12°7	78	55°2	55°2	138	97°6	97°6	198	140°0	140°0	258	182°4	182°4
19	13°4	13°4	79	55°9	55°9	139	98°3	98°3	199	140°7	140°7	259	183°1	183°1
20	14°1	14°1	80	56°6	56°6	140	99°0	99°0	200	141°4	141°4	260	183°8	183°8
21	14°8	14°8	81	57°3	57°3	141	99°7	99°7	201	142°1	142°1	261	184°5	184°5
22	15°6	15°6	82	58°0	58°0	142	100°4	100°4	202	142°8	142°8	262	185°3	185°3
23	16°3	16°3	83	58°7	58°7	143	101°1	101°1	203	143°5	143°5	263	186°0	186°0
24	17°0	17°0	84	59°4	59°4	144	101°8	101°8	204	144°2	144°2	264	186°7	186°7
25	17°7	17°7	85	60°1	60°1	145	102°5	102°5	205	145°0	145°0	265	187°4	187°4
26	18°4	18°4	86	60°8	60°8	146	103°2	103°2	206	145°7	145°7	266	188°1	188°1
27	19°1	19°1	87	61°5	61°5	147	103°9	103°9	207	146°4	146°4	267	188°8	188°8
28	19°8	19°8	88	62°2	62°2	148	104°7	104°7	208	147°1	147°1	268	189°5	189°5
29	20°5	20°5	89	62°9	62°9	149	105°4	105°4	209	147°8	147°8	269	190°2	190°2
30	21°2	21°2	90	63°6	63°6	150	106°1	106°1	210	148°5	148°5	270	190°9	190°9
31	21°9	21°9	91	64°3	64°3	151	106°8	106°8	211	149°2	149°2	271	191°6	191°6
32	22°6	22°6	92	65°1	65°1	152	107°5	107°5	212	149°9	149°9	272	192°3	192°3
33	23°3	23°3	93	65°8	65°8	153	108°2	108°2	213	150°6	150°6	273	193°0	193°0
34	24°0	24°0	94	66°5	66°5	154	108°9	108°9	214	151°3	151°3	274	193°7	193°7
35	24°7	24°7	95	67°2	67°2	155	109°6	109°6	215	152°0	152°0	275	194°5	194°5
36	25°5	25°5	96	67°9	67°9	156	110°3	110°3	216	152°7	152°7	276	195°2	195°2
37	26°2	26°2	97	68°6	68°6	157	111°0	111°0	217	153°4	153°4	277	195°9	195°9
38	26°9	26°9	98	69°3	69°3	158	111°7	111°7	218	154°1	154°1	278	196°6	196°6
39	27°6	27°6	99	70°0	70°0	159	112°4	112°4	219	154°9	154°9	279	197°3	197°3
40	28°3	28°3	100	70°7	70°7	160	113°1	113°1	220	155°6	155°6	280	198°0	198°0
41	29°0	29°0	101	71°4	71°4	161	113°8	113°8	221	156°3	156°3	281	198°7	198°7
42	29°7	29°7	102	72°1	72°1	162	114°6	114°6	222	157°0	157°0	282	199°4	199°4
43	30°4	30°4	103	72°8	72°8	163	115°3	115°3	223	157°7	157°7	283	200°1	200°1
44	31°1	31°1	104	73°5	73°5	164	116°0	116°0	224	158°4	158°4	284	200°8	200°8
45	31°8	31°8	105	74°2	74°2	165	116°7	116°7	225	159°1	159°1	285	201°5	201°5
46	32°5	32°5	106	75°0	75°0	166	117°4	117°4	226	159°8	159°8	286	202°2	202°2
47	33°2	33°2	107	75°7	75°7	167	118°1	118°1	227	160°5	160°5	287	202°9	202°9
48	33°9	33°9	108	76°4	76°4	168	118°8	118°8	228	161°2	161°2	288	203°6	203°6
49	34°6	34°6	109	77°1	77°1	169	119°5	119°5	229	161°9	161°9	289	204°4	204°4
50	35°4	35°4	110	77°8	77°8	170	120°2	120°2	230	162°6	162°6	290	205°1	205°1
51	36°1	36°1	111	78°5	78°5	171	120°9	120°9	231	163°3	163°3	291	205°8	205°8
52	36°8	36°8	112	79°2	79°2	172	121°6	121°6	232	164°0	164°0	292	206°5	206°5
53	37°5	37°5	113	79°9	79°9	173	122°3	122°3	233	164°8	164°8	293	207°2	207°2
54	38°2	38°2	114	80°6	80°6	174	123°0	123°0	234	165°5	165°5	294	207°9	207°9
55	38°9	38°9	115	81°3	81°3	175	123°7	123°7	235	166°2	166°2	295	208°6	208°6
56	39°6	39°6	116	82°0	82°0	176	124°5	124°5	236	166°9	166°9	296	209°3	209°3
57	40°3	40°3	117	82°7	82°7	177	125°2	125°2	237	167°6	167°6	297	210°0	210°0
58	41°0	41°0	118	83°4	83°4	178	125°9	125°9	238	168°3	168°3	298	210°7	210°7
59	41°7	41°7	119	84°1	84°1	179	126°6	126°6	239	169°0	169°0	299	211°4	211°4
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